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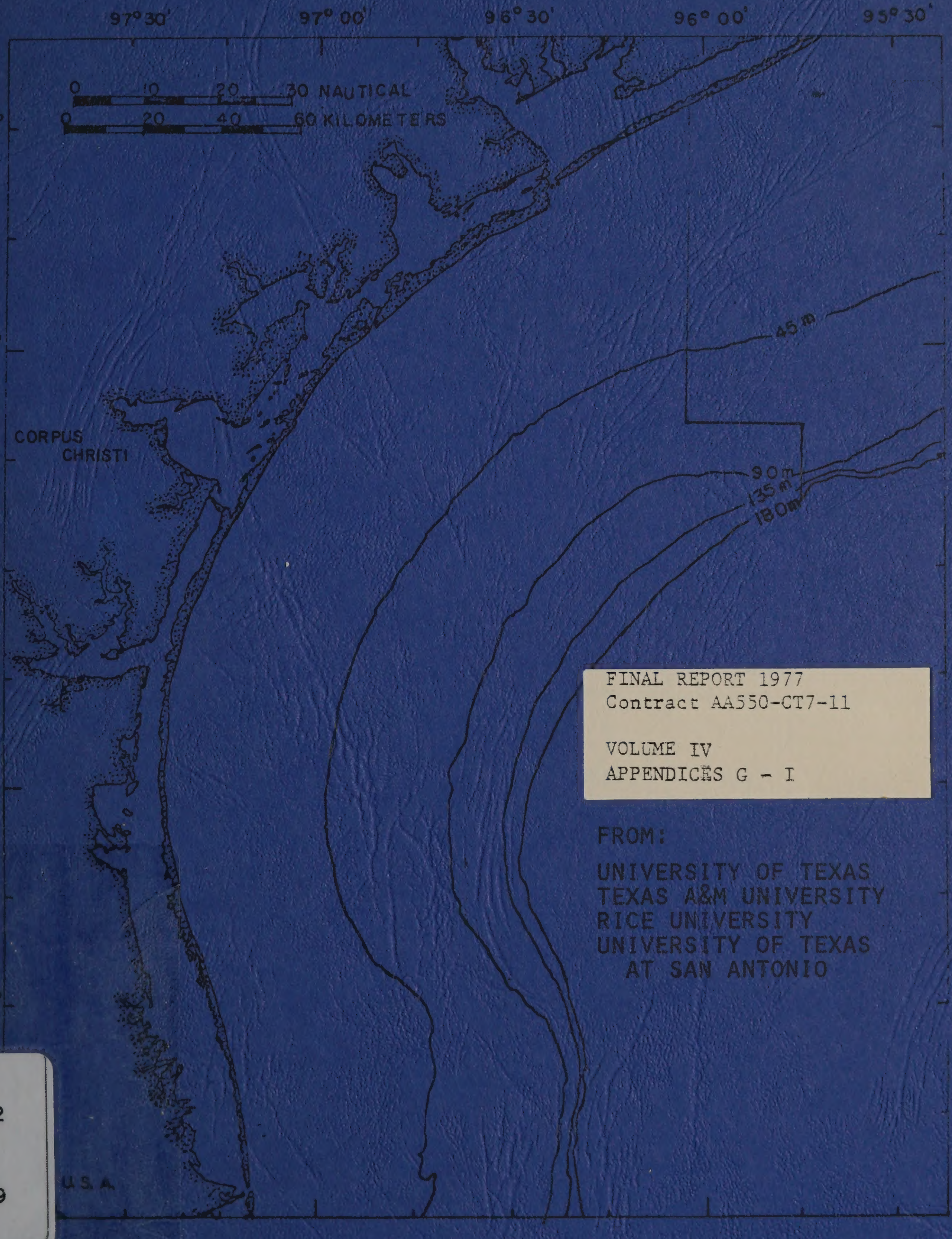

FINAL REPORT 1977
Contract AA550-CT7-11

VOLUME IV
APPENDICES G - I

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ENVIRONMENTAL STUDIES,
SOUTH TEXAS OUTER CONTINENTAL SHELF,
BIOLOGY AND CHEMISTRY

Submitted to:

The Bureau of Land Management
Washington, D. C. 20240

by

The University of Texas Marine Science Institute
Port Aransas Marine Laboratory
Port Aransas, Texas 78373

Acting for and on behalf
of a consortium program
conducted by:

Rice University
Texas A&M University
University of Texas

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January 15, 1979

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TABLE 1

MICROBIAL POPULATIONS IN WATER SAMPLES COLLECTED ALONG TRANSECT II DURING EACH CRUISE.

Explanation of Table:

Winter - Cruise 1
March - Cruise 2
April - Cruise 3
Spring - Cruise 4
July - Cruise 5
August - Cruise 6
Fall - Cruise 7
November-Cruise 8
December-Cruise 9

TABLE 1 CONT.'D

Samples Collected on Cruise 1 (February 17, 1977), Transect II.

One-half percent SL crude oil was added to the sample on Feb. 17.

Stn #	Date	Time (Days)	Average Total Heterotrophs		Average Total Oil Degraders		† Ratio
			Number cells/ml	Log$_{10}$	Number cells/ml	Log$_{10}$	
1	2/17	0	$8.9X10^{1}$	1.949	*	*	--
	4/18	60	$1.6X10^{6}$	6.204	$4.2X10^{3}$	3.623	.0026
	5/7	79	$1.6X10^{6}$	6.204	$9.0X10^{2}$	2.954	.0006
	5/20	92	$1.8X10^{6}$	6.255	$1.4X10^{3}$	3.146	.0008
	6/7	110	$8.9X10^{5}$	5.949	$1.9X10^{3}$	3.279	.0021
2	2/17	0	$7.1X10^{0}$	0.851	*	*	--
	4/18	60	$1.0X10^{4}$	4.000	$3.3X10^{2}$	2.519	.0330
	5/7	79	$2.4X10^{4}$	4.380	$2.3X10^{2}$	2.362	.0096
	5/20	92	$5.0X10^{4}$	4.689	**	--	--
	6/7	110	$1.7X10^{5}$	5.230	$1.7X10^{3}$	3.230	.0100
3	2/17	0	$5.2X10^{0}$	0.716	*	*	--
	4/18	60	$1.9X10^{6}$	6.279	$9.8X10^{1}$	1.991	.0001
	5/7	79	$1.9X10^{6}$	6.279	$1.2X10^{3}$	3.079	.0006
	5/20	92	$3.0X10^{6}$	6.477	**	--	--
	6/7	110	$2.1X10^{6}$	6.322	$3.3X10^{3}$	3.519	.0016

* <1/10 ml

** No Growth on Plates

-- Indeterminant

† Oil Deg./Total Het.

TABLE 1 CONT.'D

Samples Collected on Cruise 2 (March 25, 1977), Transect II.

No oil added.

Stn #	Date	Time (Days)	Average Total Heterotrophs		Average Total Oil Degraders		Ratio †
			Number cells/ml	Log_{10}	Number cells/ml	Log_{10}	
1	3/25	0	$8.9X10^0$	0.949	*	*	--
	4/16	23	$1.8X10^5$	5.255	**	**	--
	5/7	44	$9.4X10^5$	5.973	$2.8X10^4$	4.447	.0298
	5/20	57	$2.3X10^6$	6.362	**	**	--
	6/7	75	$4.5X10^5$	5.653	$6.5X10^2$	2.813	.0014
	6/20	88	$1.7X10^6$	6.230	$4.4X10^3$	3.638	.0026
2	3/25	0	$1.4X10^0$	0.146	*	*	--
	4/16	23	$1.4X10^5$	5.146	**	**	--
	5/7	44	$1.8X10^5$	5.255	$4.1X10^2$	2.613	.0023
	5/20	57	$1.2X10^7$	7.079	**	**	--
	6/7	75	$5.8X10^5$	5.763	$1.0X10^2$	2.000	.0002
	6/20	88	$6.0X10^5$	5.778	$2.0X10^2$	2.301	.0003
3	3/25	0	$4.1X10^0$	0.613	*	*	--
	4/16	23	$1.9X10^5$	5.279	**	**	--
	5/7	44	$1.9X10^6$	6.279	$7.7X10^2$	2.886	.0004
	5/20	57	$2.4X10^7$	7.380	**	**	--
	6/7	75	$1.3X10^6$	6.114	$1.3X10^3$	3.114	.0010
	6/20	88	$3.0X10^6$	6.477	$5.3X10^2$	2.720	.0002

* <1/10 ml ** No Growth on Plates

-- Indeterminant † Oil Deg./Total Het.

TABLE 1 CONT.'D

Samples Collected on Cruise 2 (March 25, 1977), Transect II.

One-half percent SL crude oil was added to the sample March 25.

Stn #	Date	Time	Average Total Heterotrophs		Average Total Oil Degraders		Ratio †
			Number cells/ml	Log$_{10}$	Number cells/ml	Log$_{10}$	
1	3/25	0	$8.9X10^{0}$	0.949	*	*	--
	4/16	23	$2.5X10^{5}$	5.398	$2.4X10^{3}$	3.380	.0096
	5/7	44	$6.3X10^{5}$	5.799	$1.2X10^{4}$	4.079	.0019
	5/20	57	$8.8X10^{5}$	5.944	$3.0X10^{4}$	4.477	.0034
	6/7	75	$9.3X10^{5}$	5.968	$3.0X10^{4}$	4.477	.0032
	6/20	88	$1.4X10^{6}$	6.146	**	**	--
2	3/25	0	$1.4X10^{0}$	0.146	*	*	--
	4/16	23	$2.2X10^{5}$	5.342	$5.5X10^{2}$	2.740	.0025
	5/7	44	$2.1X10^{6}$	6.322	$4.5X10^{4}$	4.653	.0214
	5/20	57	$1.1X10^{6}$	6.041	**	**	--
	6/7	75	$3.5X10^{5}$	5.544	$5.0X10^{3}$	3.699	.0143
	6/20	88	$1.8X10^{6}$	6.255	$3.6X10^{4}$	4.556	.0200
3	3/25	0	$4.1X10^{0}$	0.613	*	*	--
	4/16	23	$4.5X10^{4}$	4.653	$8.1X10^{2}$	2.908	.0180
	5/7	44	$2.8X10^{5}$	5.447	$3.6X10^{4}$	4.556	.1286
	5/20	57	$4.0X10^{5}$	5.602	$2.4X10^{3}$	3.380	.0060
	6/7	75	$1.2X10^{6}$	6.079	$4.1X10^{3}$	3.613	.0034
	6/20	88	$2.0X10^{6}$	6.301	$1.1X10^{4}$	4.041	.0055

* < 1/10 ml

** No Growth on Plates

-- Indeterminant

† Oil Deg./Total Het.

TABLE 1 CONT.'D

Samples Collected on Cruise 3 (April 25, 1977) Transect II.

Control Samples (No Oil Added)

Station No.	Date Measured	Time (Days)	Average Total Heterotrophs		Average Total Oil Degraders		Ratio †
			Number cells/ml	Log$_{10}$	Number cells/ml	Log$_{10}$	
1	4/25	0	$2.8x10^{2}$	2.445	*	—	—
	5/7	2	$3.6x10^{5}$	5.561	$1.6x10^{4}$	4.210	.0446
	5/20	25	$4.8x10^{5}$	5.677	**	—	—
	6/7	43	$3.6x10^{5}$	5.553	$2.9x10^{3}$	3.459	.0080
	6/20	56	$4.0x10^{5}$	5.600	$6.9x10^{3}$	3.840	.0172
	7/2	68	$7.3x10^{5}$	5.870	$3.6x10^{4}$	4.560	.0498
	7/22	88	$2.9x10^{5}$	5.460	$2.7x10^{3}$	3.440	.0094
2	4/25	0	$1.1x10^{2}$	2.026	*	—	—
	5/7	2	$2.7x10^{5}$	5.439	$5.6x10^{4}$	4.752	.0206
	5/20	25	$2.0x10^{5}$	5.301	$1.0x10^{4}$	4.009	.0510
	6/7	43	$9.5x10^{4}$	4.978	**	—	—
	6/20	56	$2.2x10^{5}$	5.350	$1.0x10^{3}$	3.000	.0044
	7/2	68	$1.3x10^{5}$	5.120	$1.5x10^{3}$	3.180	.0115
	7/22	88	$1.4x10^{5}$	5.150	$3.3x10^{2}$	2.520	.0022
3	4/25	0	5.2x10	1.720	*	—	—
	5/7	2	$5.9x10^{4}$	4.769	**	—	—
	5/20	25	$2.0x10^{5}$	5.301	**	—	—
	6/7	43	$3.0x10^{4}$	4.477	$1.2x10^{3}$	3.097	.0001
	6/20	56	$1.0x10^{5}$	4.999	$2.5x10^{3}$	3.400	.0044
	7/2	68	$3.0x10^{4}$	4.480	$1.0x10^{2}$	2.000	.0115
	7/22	88	$6.0x10^{4}$	4.780	1.3x10	3.120	.0022

* <1 per 10 ml

** No growth on Plates

— Indeterminant

† Oil Deg./Total Het.

TABLE 1 CONT.'D

Samples Collected on Cruise 3 (April 25, 1977) Transect II.

One half percent SL crude oil was added to sample on April 25, 1977.

Station No.	Date Measured	Time (Days)	Average Total Heterotrophs		Average Total Oil Degraders		Ratio †
			Number cells/ml	Log_{10}	Number cells/ml	Log_{10}	
1	4/25	0	$2.8x10^2$	2.445	*	—	—
	5/7	2	$8.6x10^5$	5.936	$4.2x10^4$	4.619	.0482
	5/20	25	$1.6x10^6$	6.197	**	—	—
	6/7	43	$1.7x10^6$	6.230	**	—	—
	6/20	56	$1.9x10^6$	6.290	$2.0x10^2$	2.300	<.0001
	7/2	68	$1.9x10^6$	6.290	$1.0x10^4$	4.000	.0050
	7/22	88	$2.1x10^6$	6.310	$2.3x10^2$	2.360	.0001
2	4/25	0	$1.1x10^2$	2.026	*	—	—
	5/7	2	$1.3x10^6$	6.105	$6.9x10^2$	2.838	.0005
	5/20	25	$2.4x10^6$	6.389	$1.0x10^4$	4.600	.0042
	6/7	43	$1.3x10^6$	1.106	**	—	—
	6/20	56	$2.7x10^6$	6.430	**	—	—
	7/2	68	$1.1x10^6$	6.020	$1.3x10^3$	3.110	.0012
	7/22	88	$1.3x10^6$	6.110	$2.0x10^2$	2.300	<.0001
3	4/25	0	5.3x10	1.720	*	—	—
	5/7	2	$4.3x10^5$	5.636	**	—	—
	5/20	25	$7.8x10^5$	5.889	**	—	—
	6/7	43	$3.9x10^6$	6.588	**	—	—
	6/20	56	$4.3x10^5$	5.640	$5.0x10^2$	2.700	.0010
	7/2	68	$3.3x10^5$	5.520	$2.5x10^2$	2.400	.0008
	7/22	88	$1.2x10^5$	5.080	$1.5x10^2$	2.170	.0012

* <1 per 10 ml

** No growth on Plates

— Indeterminant

† Oil Deg./Total Het.

TABLE 1 CONT.'D

Samples Collected on Cruise 4 (June 10, 1977) Transect II.

One half percent SL crude oil was added to the sample on June 10, 1977.

Station No.	Date Measured	Time (Days)	Average Total Heterotrophs Number cells/ml	Average Total Heterotrophs Log$_{10}$	Average Total Oil Degraders Number cells/ml	Average Total Oil Degraders Log$_{10}$	Ratio †
1	6/10	0	3.3x10^{2}	2.519	*	-	-
	6/20	10	**	**	4.0x10^{3}	3.602	-
	7/2	22	6.9x10^{5}	5.839	1.7x10^{2}	2.230	.0002
	7/22	42	8.0x10^{5}	5.903	9.3x10^{2}	2.968	.0012
	8/10	61	9.2x10^{5}	5.964	5.5x10^{2}	2.740	.0006
2	6/10	0	1.2x10^{2}	2.079	*	-	-
	6/20	10	4.5x10^{5}	5.653	1.7x10^{3}	3.230	.0038
	7/2	22	1.6x10^{5}	5.204	2.5x10^{3}	3.398	.0158
	7/22	42	2.1x10^{5}	5.322	2.3x10^{2}	2.362	.0012
	8/10	61	1.4x10^{5}	5.146	3.3x10^{2}	2.519	.0024
3	6/10	0	3.0x10^{2}	2.477	*	-	-
	6/20	10	2.5x10^{4}	4.398	1.5x10^{2}	2.176	.0063
	7/2	22	1.5x10^{5}	5.176	9.8x10^{2}	2.991	.0067
	7/22	42	2.5x10^{4}	4.398	4.1x10^{2}	2.613	.0162
	8/10	61	4.0x10^{4}	4.602	7.5x10^{1}	1.875	.0019

* 1 per 10 ml

** No growth on Plates

- Indeterminant

† Oil Deg./Total Het.

TABLE 1 CONT.'D

Samples Collected on Cruise 4 (June 10, 1977) Transect II.

Control Samples (No Oil Added)

Station No.	Date Measured	Time (Days)	Average Total Heterotrophs Number cells/ml	Average Total Heterotrophs Log$_{10}$	Average Total Oil Degraders Number cells/ml	Average Total Oil Degraders Log$_{10}$	Ratio †
1	6/10	0	3.3x10^{2}	2.519	*	-	-
	6/20	10	2.4x10^{6}	6.380	7.8x10^{3}	3.892	.0033
	7/2	22	8.4x10^{5}	5.924	2.8x10^{4}	4.447	.0333
	7/22	42	1.3x10^{6}	6.114	5.9x10^{3}	3.771	.0045
	8/10	61	9.2x10^{5}	5.964	4.1x10^{3}	3.613	.0045
2	6/10	0	1.2x10^{2}	2.079	*	-	-
	6/20	10	7.5x10^{4}	4.875	**	**	-
	7/2	22	2.0x10^{5}	5.301	1.2x10^{3}	3.079	.0060
	7/22	42	2.3x10^{5}	5.362	1.0x10^{2}	2.000	.0004
	8/10	61	1.4x10^{5}	5.146	5.8x10^{2}	2.763	.0041
3	6/10	0	3.0x10^{2}	2.477	*	-	-
	6/20	10	6.6x10^{4}	4.820	2.5x10^{2}	2.407	.0038
	7/2	22	1.8x10^{5}	5.255	2.3x10^{3}	3.361	.0128
	7/22	42	9.5x10^{4}	4.978	4.5x10^{2}	2.653	.0047
	8/10	61	4.0x10^{4}	4.602	1.8x10^{2}	2.255	.0045

* 1 per 10 ml

** No growth on Plates

- Indeterminant

† Oil Deg./Total Het.

TABLE 1 CONT.'D

Samples collected on Cruise 5 (July 9, 1977) Transect II.

One-half percent SL crude oil was added to the samples. July 9, 1977.

			Average Total Heterotrophs		Average Total Oil Degraders		
Station No.	Date Measured	Time (Days)	Number cells/ml	Log$_{10}$	Number cells/ml	Log$_{10}$	Ratio †
1	7/9	0	1.7x10^{2}	2.230	*	-	-
	7/22	13	4.3x10^{4}	4.633	2.5x10^{2}	2.390	.0058
	8/10	32	3.2x10^{6}	6.505	1.8x10^{2}	2.255	.0001
	9/2	55	1.3x10^{5}	5.114	**	-	-
	9/16	69	8.2x10^{4}	4.914	3.0x10^{2}	2.477	.0037
2	7/9	0	9.4x10^{1}	1.973	*	-	-
	7/22	13	1.8x10^{5}	5.255	3.6x10^{3}	3.556	.0020
	8/10	32	2.4x10^{5}	5.380	6.9x10^{2}	2.839	.0029
	9/2	55	8.2x10^{4}	4.914	5.9x10^{2}	2.771	.0072
	9/16	69	8.8x10^{4}	4.944	1.2x10^{3}	3.079	.0136
3	7/9	0	6.7x10^{1}	1.826	*	-	-
	7/22	13	1.9x10^{5}	5.279	4.2x10^{3}	3.620	.0221
	8/10	32	4.4x10^{5}	5.643	1.0x10^{3}	3.000	.0023
	9/2	55	1.7x10^{5}	5.230	2.1x10^{3}	3.322	.0124
	9/16	69	1.2x10^{5}	5.079	1.4x10^{4}	4.146	.0117

* 1 per 10 ml

** No growth on Plates

- Indeterminant

† Oil Deg./Total Het.

TABLE 1 CONT.'D

Samples collected on Cruise 5 (July 9, 1977) Transect II.

Control Sample (No Oil Added).

			Average Total Heterotrophs		Average Total Oil Degraders		
Station No.	Date Measured	Time (Days)	Number cells/ml	Log_{10}	Number cells/ml	Log_{10}	Ratio †
1	7/9	0	1.7×10^{2}	2.230	*	-	-
	7/22	13	1.3×10^{5}	5.120	1.3×10^{2}	2.114	.0001
	8/10	32	1.4×10^{5}	5.146	1.5×10^{2}	2.176	.0011
	9/2	55	6.2×10^{5}	5.792	2.3×10^{2}	2.362	.0004
	9/16	69	2.7×10^{5}	5.431	1.2×10^{2}	2.079	.0004
2	7/9	0	9.4×10^{2}	2.964	*	-	-
	7/22	13	3.5×10^{5}	5.544	6.1×10^{2}	2.785	.0017
	8/10	32	1.3×10^{5}	5.114	1.4×10^{2}	2.146	.0011
	9/2	55	2.5×10^{5}	5.398	7.5×10^{2}	2.875	.0030
	9/16	69	1.5×10^{5}	5.176	2.0×10^{3}	3.301	.0013
3	7/9	0	6.7×10^{1}	1.826	*	-	-
	7/22	13	1.5×10^{5}	5.176	2.0×10^{3}	3.301	.0013
	8/10	32	4.4×10^{5}	5.643	7.5×10^{3}	3.875	.0170
	9/2	55	1.4×10^{5}	5.146	9.1×10^{3}	3.959	.0650
	9/16	69	1.1×10^{5}	5.041	3.2×10^{4}	4.505	.2909

* 1 per 10 ml

** No growth on Plates

- Indeterminant

† Oil Deg./Total Het.

TABLE 1 CONT.'D

Samples Collected on Cruise 6 (August 6, 1977) Transect II.

Control Sample (No Oil Added).

Station No.	Date Measured	Time (Days)	Average Total Heterotrophs Number cells/ml	Average Total Heterotrophs Log$_{10}$	Average Total Oil Degraders Number cells/ml	Average Total Oil Degraders Log$_{10}$	Ratio †
1	8/6	0	$1.8x10^2$	2.255	*	-	-
	8/13	7	$2.1x10^5$	5.322	$1.9x10^2$	2.278	.0009
	9/2	27	$3.2x10^5$	5.505	$1.9x10^2$	2.278	.0006
	9/16	41	$4.1x10^4$	4.613	$3.5x10^2$	2.544	.0083
	10/6	61	$4.2x10^4$	4.623	$2.8x10^3$	3.447	.0667
	10/26	81	$2.8x10^4$	4.447	$4.0x10^3$	3.602	.1428
2	8/6	0	$4.1x10^1$	1.613	*	-	-
	8/13	7	$9.6x10^4$	4.982	$1.1x10^3$	3.041	.0114
	9/2	27	$1.6x10^5$	5.204	$9.8x10^3$	3.991	.0613
	9/16	41	$1.4x10^5$	5.146	$1.3x10^4$	4.114	.0928
	10/6	61	$1.6x10^5$	5.204	$1.2x10^4$	4.079	.0750
	10/26	81	$1.9x10^5$	5.279	$1.1x10^4$	4.041	.0579
3	8/6	0	$4.6x10^1$	1.663	*	-	-
	8/13	7	$1.7x10^5$	5.230	$1.5x10^2$	2.176	.0009
	9/2	27	$8.1x10^4$	4.908	$5.8x10^1$	1.763	.0007
	9/16	41	$4.7x10^4$	4.672	$3.0x10^1$	1.477	.0006
	10/6	61	$1.5x10^4$	4.176	$2.3x10^2$	2.362	.0153
	10/26	81	$1.3x10^4$	4.114	$4.0x10^1$	1.602	.0028

* 1 per 10 ml

- Indeterminant

† Oil Deg./Total Het.

TABLE 1 CONT.'D

Samples Collected on Cruise 6 (August 6, 1977) Transect II.

One-half percent SL crude oil was added to the sample August 6, 1977.

Station Number	Sample Number	Date Sample Plated	Time (Days)	Average Total Heterotrophs Number	Average Total Heterotrophs Log$_{10}$	Average Total Oil Degraders Number	Average Total Oil Degraders Log$_{10}$	Ratio †
1	0	8/6	0	$1.8\text{x}10^{2}$	2.255	*	-	-
	1	8/13	7	$4.7\text{x}10^{4}$	4.682	$4.0\text{x}10^{2}$	2.602	.0085
	2	9/2	27	$7.7\text{x}10^{4}$	4.886	$5.2\text{x}10^{1}$	1.716	.0007
	3	9/16	41	$9.3\text{x}10^{4}$	4.968	$7.3\text{x}10^{2}$	2.863	.0078
	4	10/6	61	$7.9\text{x}10^{4}$	4.898	$2.2\text{x}10^{2}$	2.342	.0028
	5	10/26	81	$8.7\text{x}10^{4}$	4.940	$6.3\text{x}10^{3}$	3.799	.0724
2	0	8/6	0	$4.1\text{x}10^{1}$	1.613	*	-	-
	1	8/13	7	$1.5\text{x}10^{5}$	5.176	$1.1\text{x}10^{3}$	3.041	.0073
	2	9/2	27	$1.5\text{x}10^{5}$	5.176	$9.8\text{x}10^{2}$	2.991	.0065
	3	9/16	41	$2.7\text{x}10^{5}$	5.431	$1.3\text{x}10^{4}$	4.114	.0481
	4	10/6	61	$5.4\text{x}10^{5}$	5.732	$1.0\text{x}10^{3}$	3.000	.0019
	5	10/26	81	$2.2\text{x}10^{5}$	5.342	$1.6\text{x}10^{4}$	4.204	.0727
3	0	8/6	0	$4.6\text{x}10^{1}$	1.662	*	-	-
	1	8/13	7	$1.1\text{x}10^{5}$	5.041	$3.4\text{x}10^{2}$	2.531	.0031
	2	9/2	27	$3.4\text{x}10^{4}$	4.531	$4.5\text{x}10^{1}$	1.653	.0013
	3	9/16	41	$2.5\text{x}10^{4}$	4.398	$3.5\text{x}10^{1}$	1.544	.0014
	4	10/6	61	$2.2\text{x}10^{4}$	4.342	$2.8\text{x}10^{1}$	1.447	.0012
	5	10/26	81	$2.6\text{x}10^{5}$	5.415	$3.8\text{x}10^{1}$	1.580	.0001

* 1 per 10 ml

- Indeterminant

† Oil Deg./Total Het.

TABLE 1 CONT.'D

Samples collected on Cruise 7 (October 21, 1977) Transect II.

One-tenth percent SL crude oil was added to the samples October 21, 1977.

			Average Total Heterotrophs		Average Total Oil Degraders		
Station No.	Date Measured	Time (Days)	Number cells/ml	Log$_{10}$	Number cells/ml	Log$_{10}$	Ratio †
1	10/21	0	1.2x10^{2}	2.079	*	-	-
	11/10	20	1.2x10^{5}	5.079	1.9x10^{3}	3.279	.0158
	12/5	45	1.3x10^{5}	5.114	4.3x10^{3}	3.633	.0331
	2/1	100	4.2x10^{5}	5.623	4.5x10^{3}	3.653	.0107
2	10/21	0	7.3x10^{1}	1.863	*	-	-
	11/10	20	9.6x10^{4}	4.982	5.0x10^{2}	2.699	.0052
	12/5	45	1.2x10^{5}	5.079	3.6x10^{3}	3.556	.0300
	2/1	100	6.8x10^{5}	5.833	3.8x10^{3}	3.580	.0056
3	10/21	0	1.5x10^{1}	1.176	*	-	-
	11/10	20	5.9x10^{4}	4.771	1.3x10^{2}	2.114	.0022
	12/5	45	4.2x10^{4}	4.623	1.4x10^{3}	3.146	.0333
	2/1	100	7.2x10^{4}	4.857	1.2x10^{3}	3.079	.0166

*	1 per 10 ml
**	No growth on Plates
-	Indeterminant
†	Oil Deg./Total Het.

TABLE 1 CONT.'D

Samples collected on Cruise 7 (October 21, 1977) Transect II.

Control Samples (No Oil Added).

			Average Total Heterotrophs		Average Total Oil Degraders		
Station No.	Date Measured	Time (Days)	Number cells/ml	Log_{10}	Number cells/ml	Log_{10}	Ratio †
1	10/21	0	$1.2x10^2$	2.079	*	-	-
	11/10	20	$5.4x10^4$	4.732	$6.8x10^2$	2.833	.0126
	12/5	45	$6.8x10^4$	4.833	$4.4x10^3$	3.643	.0647
	2/1	100	$7.4x10^5$	5.869	$4.4x10^3$	3.643	.0059
2	10/21	0	$7.3x10^1$	1.863	*	-	-
	11/10	20	$7.1x10^4$	4.851	$2.8x10^3$	3.447	.0394
	12/5	45	$6.7x10^4$	4.826	$7.6x10^3$	3.881	.1134
	2/1	100	$2.9x10^4$	4.462	$7.1x10^3$	3.851	.2448
3	10/21	0	$1.5x10^1$	1.176	*	-	-
	11/10	20	$2.7x10^4$	4.431	$7.0x10^1$	1.845	.0026
	12/5	45	$1.6x10^4$	4.204	$5.0x10^1$	1.699	.0031
	2/1	100	$2.7x10^5$	5.431	$1.4x10^2$	2.146	.0005

* 1 per 10 ml

** No growth on Plates

- Indeterminant

† Oil Deg./Total Het.

TABLE 1 CONT.'D

Samples collected on Cruise 8 (November 20, 1977) Transect II.

Control Samples (No Oil Added).

			Average Total Heterotrophs		Average Total Oil Degraders		
Station No.	Date Measured	Time (Days)	Number cells/ml	Log$_{10}$	Number cells/ml	Log$_{10}$	Ratio †
1	11/20	0	4.0x10^{1}	1.602	*	-	-
	12/7	17	7.2x10^{4}	4.857	6.3x10^{3}	3.799	.0875
	1/3	44	6.8x10^{4}	4.833	2.4x10^{2}	2.380	.0035
	2/9	84	3.7x10^{4}	4.568	3.3x10^{3}	3.519	.0892
	4/19	122	4.8x10^{4}	4.681	2.4x10^{2}	2.380	.0050
2	11/20	0	3.0x10^{1}	1.477	*	-	-
	12/7	17	1.2x10^{4}	4.079	6.3x10^{1}	1.799	.0015
	1/3	44	3.3x10^{3}	3.519	5.0x10^{1}	1.699	.0152
	2/9	84	6.5x10^{3}	3.813	1.3x10^{2}	2.114	.0200
	4/19	122	2.0x10^{4}	4.301	2.5x10^{1}	1.398	.0012
3	11/20	0	1.9x10^{1}	1.279	*	-	-
	12/7	17	2.9x10^{5}	5.462	1.2x10^{4}	4.079	.0414
	1/3	44	1.7x10^{5}	5.230	1.1x10^{3}	3.041	.0065
	2/9	84	2.1x10^{5}	5.322	3.5x10^{3}	3.544	.0167
	4/19	122	3.8x10^{4}	4.580	5.4x10^{2}	2.732	.0142

*	1 per 10 ml
**	No growth on Plates
-	Indeterminant
†	Oil Deg./Total Het.

TABLE 1 CONT.'D

Samples collected on Cruise 8 (November 20, 1977) Transect II.

One-tenth percent SL crude oil was added to the samples November 20, 1977.

			Average Total Heterotrophs		Average Total Oil Degraders		
Station No.	Date Measured	Time (Days)	Number cells/ml	Log_{10}	Number cells/ml	Log_{10}	Ratio †
1	11/20	0	$4.0\text{x}10^1$	1.602	*	-	-
	12/7	17	$7.6\text{x}10^5$	5.881	$3.6\text{x}10^3$	3.556	.0047
	1/3	44	$4.3\text{x}10^5$	5.633	$1.6\text{x}10^3$	3.204	.0037
	2/9	84	$9.2\text{x}10^5$	5.964	$3.8\text{x}10^3$	3.580	.0041
	4/19	122	$2.8\text{x}10^5$	5.447	$1.7\text{x}10^2$	3.230	.0006
2	11/20	0	$3.0\text{x}10^1$	1.477	*	-	-
	12/7	17	$4.3\text{x}10^4$	4.633	$1.8\text{x}10^3$	3.255	.0419
	1/3	44	$1.4\text{x}10^4$	4.146	$1.0\text{x}10^2$	2.000	.0071
	2/9	84	$1.2\text{x}10^4$	4.079	$1.3\text{x}10^2$	2.114	.0108
	4/19	122	$4.4\text{x}10^4$	4.643	$1.8\text{x}10^2$	2.255	.0041
3	11/20	0	$1.9\text{x}10^1$	1.279	*	-	-
	12/7	17	$5.9\text{x}10^5$	5.771	$1.9\text{x}10^4$	4.279	.0322
	1/3	44	$2.5\text{x}10^5$	5.398	$1.9\text{x}10^3$	3.279	.0076
	2/9	84	$3.4\text{x}10^5$	5.531	$3.1\text{x}10^3$	3.491	.0124
	4/19	122	$3.4\text{x}10^5$	5.531	$1.8\text{x}10^3$	3.255	.0053

* 1 per 10 ml

** No growth on Plates

- Indeterminant

† Oil Deg./Total Het.

TABLE 1 CONT.'D

Samples collected on Cruise 9 (December 16, 1977) Transect II.

One-tenth percent SL crude oil was added to the samples November 20, 1977.

			Average Total Heterotrophs		Average Total Oil Degraders		
Station No.	Date Measured	Time (Days)	Number cells/ml	Log$_{10}$	Number cells/ml	Log$_{10}$	Ratio †
1	12/16	0	1.6x10^{2}	2.204	*	-	-
	1/3	18	2.3x10^{5}	5.362	4.5x10^{2}	2.653	.0019
	2/20	66	1.8x10^{5}	5.255	5.3x10^{2}	2.724	.0029
	4/19	124	3.5x10^{5}	5.544	5.6x10^{2}	2.748	.0016
2	12/16	0	5.9x10^{1}	1.771	*	-	-
	1/3	18	2.3x10^{5}	5.362	1.9x10^{2}	2.279	.0008
	2/20	66	8.8x10^{4}	4.944	2.6x10^{2}	2.415	.0030
	4/19	124	1.5x10^{5}	5.176	2.1x10^{2}	2.322	.0014
3	12/16	0	1.4x10^{1}	1.146	*	-	-
	1/3	18	6.1x10^{4}	4.785	3.2x10^{2}	2.505	.0052
	2/20	66	6.8x10^{3}	3.833	8.5x10^{1}	1.929	.0125
	4/19	124	6.3x10^{3}	3.799	1.8x10^{2}	2.255	.0285

* 1 per 10 ml

** No growth on Plates

- Indeterminant

† Oil Deg./Total Het.

TABLE 1 CONT.'D

Samples collected on Cruise 9 (December 16, 1977) Transect II.

Control Samples (No Oil Added).

			Average Total Heterotrophs		Average Total Oil Degraders		
Station No.	Date Measured	Time (Days)	Number cells/ml	Log_{10}	Number cells/ml	Log_{10}	Ratio †
1	12/16	0	$1.6x10^2$	2.204	*	-	-
	1/3	18	$3.2x10^5$	5.505	$5.0x10^2$	2.699	.0016
	2/20	66	$1.7x10^5$	5.230	$5.6x10^2$	2.748	.0033
	4/19	124	$1.4x10^5$	5.146	$5.8x10^2$	2.763	.0041
2	12/16	0	$5.9x10^1$	1.771	*	-	-
	1/3	18	$1.6x10^5$	5.204	$7.3x10^2$	2.863	.0046
	2/20	66	$7.1x10^4$	4.851	$7.3x10^2$	2.863	.0103
	4/19	124	$6.6x10^5$	5.820	$3.4x10^2$	2.531	.0005
3	12/16	0	$1.4x10^1$	1.146	*	-	-
	1/3	18	$1.4x10^4$	4.146	$2.3x10^2$	2.362	.0164
	2/20	66	$1.8x10^4$	4.255	$4.3x10^1$	1.633	.0024
	4/19	124	$1.0x10^4$	4.000	$1.5x10^2$	2.176	.0150

* 1 per 10 ml

** No growth on Plates

- Indeterminant

† Oil Deg./Total Het.

TABLE 2

SUCCESSION OF HETEROTROPHS IN A CLOSED SYSTEM INCUBATED WITH/WITHOUT SOUTH LOUISIANA CRUDE OIL

Explanation of Table:

Data for Stations 1, 2 and 3, Transect II are presented for each cruise and for each treatment (oil/no oil)

Winter - Cruise 1
March - Cruise 2
April - Cruise 3
Spring - Cruise 4
July - Cruise 5
August - Cruise 6
Fall - Cruise 7
November- Cruise 8
December- Cruise 9

TABLE 2 CONT.'D

With SLCO TIME (DAYS)

Cruise 1 DATE	2/17	4/18	5/7	5/20	6/7	
Transect II	0	60	79	92	110	
Station 1 CFUs per ml	8.9×10^{1}	1.6×10^{6}	1.6×10^{6}	1.8×10^{6}	8.9×10^{5}	
STRAIN	% OF TOTAL CFUs					
Pseudomonas #3	–	–	†	–	–	
Unknown Ps #7(y)*	–	–	†	–	–	
Unknown Ps #6*	–	–	†	–	–	
Pseudomonas #5	–	–	†	–	–	
Unknown Ps #7(t)	–	–	†	–	–	
Unknown Ps #7(b)	–	–	†	–	–	

- Plates desicated before analysis was attempted
+ Lost in culture
* in progress
† Insufficient data collected to calculate percent

TABLE 2 CONT.'D

With SLCO TIME (DAYS)

Cruise 1 DATE	2/17	4/18	5/7	5/20	6/7	
Transect II	0	60	79	92	110	
Station 2 CFUs per ml	7.1×10^0	1.0×10^4	2.4×10^4	5.0×10^4	1.7×10^5	
STRAIN	% OF TOTAL CFUs					
Pseudomonas #3	-	-	-	-	-	
Unknown Ps #7(o)*	-	-	-	-	-	
Unknown Ps #6*	-	-	-	-	-	
Unknown Ps #7(y)*	-	-	-	-	-	
Unknown Ps #7(b)	-	-	-	-	-	
Flavobacterium II	-	-	-	-	-	

- Plates desicated before analysis was attempted
+ Lost in culture
* in progress

TABLE 2 CONT.'D

Cruise 1
Transect II
Station 3

	With SLCO		TIME (DAYS)			
DATE	2/17	4/18	5/7	5/20	6/7	
	0	60	79	92	110	
CFUs per ml	5.2×10^0	1.9×10^6	1.9×10^6	3.0×10^6	2.1×10^6	
STRAIN	% OF TOTAL CFUs					
Unknown Ps #8*	-	-	†	-	-	
Pseudomonas #3	-	-	†	-	-	
Pseudomonas #5	-	-	†	-	-	
Pseudomonas #4	-	-	†	-	-	

- Plates desicated before analysis was attempted
+ Lost in culture
* in progress
† Insufficient data collected to calculate percent

TABLE 2 CONT.'D

Without SLCO

TIME (DAYS)

Cruise 2 DATE	3/25	4/16	5/7	5/20	6/7	6/20
Transect II	0	23	44	57	75	88
Station 1 CFUs per ml	8.9×10^0	1.8×10^5	9.4×10^5	2.3×10^6	4.5×10^5	1.7×10^6
STRAIN	% OF TOTAL CFUs					
	-	-	-	-	-	-

- Plates desicated before analysis was attempted

+ Lost in culture

* in progress

TABLE 2 CONT.'D

Without SLCO

TIME (DAYS)

Cruise 2 DATE	3/25	4/16	5/7	5/20	6/7	6/20
Transect II	0	23	44	57	75	88
Station 2 CFUs per ml	1.4×10^{0}	1.4×10^{5}	1.8×10^{5}	1.2×10^{7}	5.8×10^{5}	6.0×10^{5}
STRAIN	% OF TOTAL CFUs					
	-	-	-	-	-	-

- Plates desicated before analysis was attempted

+ Lost in culture

* in progress

TABLE 2 CONT.'D

Without SLCO TIME (DAYS)

Cruise 2 DATE	3/25	4/16	5/7	5/20	6/7	6/20
Transect II	0	23	44	57	75	88
Station 3 CFUs per ml	4.1×10^{0}	1.9×10^{5}	1.9×10^{6}	2.4×10^{7}	1.3×10^{6}	3.0×10^{6}
STRAIN	% OF TOTAL CFUs					
	-	-	-	-	-	-

- Plates desicated before analysis was attempted

+ Lost in culture

* in progress

TABLE 2 CONT.'D

With SLCO

TIME (DAYS)

Cruise 2 DATE	3/25	4/16	5/7	5/20	6/7	6/20
Transect II	0	23	44	57	75	88
Station 1 CFUs per ml	8.9×10^{0}	2.5×10^{5}	6.3×10^{5}	8.8×10^{5}	9.3×10^{5}	1.4×10^{6}
STRAIN	% OF TOTAL CFUs					
	-	-	-	-	-	-

- Plates desicated before analysis was attempted
+ Lost in culture
* in progress

TABLE 2 CONT.'D

With SLCO

		TIME (DAYS)					
Cruise 2	DATE	3/25	4/16	5/7	5/20	6/7	6/20
Transect II		0	23	44	57	75	88
Station 2	CFUs per ml	1.4×10^0	2.2×10^5	2.1×10^6	1.1×10^6	3.5×10^5	1.8×10^6
STRAIN		% OF TOTAL CFUs					
		-	-	-	-	-	-

- Plates desicated before analysis was attempted
+ Lost in culture
* in progress

TABLE 2 CONT.'D

With SLCO

Cruise 2 DATE	3/25	4/16	5/7	5/20	6/7	6/20
Transect II	0	23	44	57	75	88
Station 3 CFUs per ml	4.1×10^0	4.5×10^4	2.8×10^5	4.0×10^5	1.2×10^6	2.0×10^6
STRAIN	% OF TOTAL CFUs					
	-	-	-	-	-	-

- Plates desicated before analysis was attempted

+ Lost in culture

* in progress

TABLE 2 CONT.'D

Without SLCO

TIME (DAYS)

Cruise 3 DATE	4/25	5/7	5/20	6/7	6/20	7/22
Transect II	0	2	25	43	56	88
Station 1 CFUs per ml	2.8×10^{2}	3.6×10^{5}	4.8×10^{5}	3.6×10^{5}	4.0×10^{5}	2.9×10^{5}
STRAIN	% OF TOTAL CFUs					
Unknown Ps #7(b)*	-	-	-	-	-	†
Unknown Ps #6*	-	-	-	-	-	†
Coryneform D	-	-	-	-	-	†
Unknown 2-3	-	-	-	-	-	†

- Plates desicated before analysis was attempted

+ Lost in culture

* in progress

† Insufficient data collected to calculate percent

TABLE 2 CONT.'D

Without SLCO

Cruise 3 DATE	4/25	5/7	5/20	6/7	6/20	7/22
Transect II TIME (DAYS)	0	2	25	43	56	88
Station 2 CFUs per ml	1.1×10^2	2.7×10^5	2.0×10^5	9.5×10^4	2.2×10^5	1.4×10^5
STRAIN	% OF TOTAL CFUs					
Unknown Ps #7(b)*	-	-	-	-	-	†
Actinomycetes	-	-	-	-	-	†
Flavobacterium I	-	-	-	-	-	†

- Plates desicated before analysis was attempted

+ Lost in culture

* in progress

† Insufficient data collected to calculate percent

TABLE 2 CONT.'D

Without SLCO TIME (DAYS)

Cruise 3	DATE	4/25	5/7	5/20	6/7	6/20	7/22
Transect II		0	2	25	43	56	88
Station 3	CFUs per ml	5.2×10^1	5.9×10^4	2.0×10^5	3.0×10^4	1.5×10^5	6.0×10^4
STRAIN		% OF TOTAL CFUs					
Unknown Ps #6		-	-	-	-	-	†

- Plates desicated before analysis was attempted

+ Lost in culture

* in progress

† Insufficient data collected to calculate percent

TABLE 2 CONT.'D

With SLCO

TIME (DAYS)

Cruise 3 Transect II Station 1						
DATE	4/25	5/7	5/20	6/7	6/20	7/22
	0	2	25	43	56	88
CFUs per ml	2.8×10^{2}	8.6×10^{5}	1.6×10^{6}	1.7×10^{6}	1.9×10^{6}	2.1×10^{6}
STRAIN	% OF TOTAL CFUs					
Unknown Ps #6*	–	–	–	–	–	†
Flavobacterium I	–	–	–	–	–	†
Flavobacterium II	–	–	–	–	–	†

- Plates desicated before analysis was attempted

+ Lost in culture

* in progress

† Insufficient data collected to calculate percent

TABLE 2 CONT.'D

With SLCO

TIME (DAYS)

Cruise 3	DATE	4/25	5/7	5/20	6/7	6/20	7/22
Transect II		0	2	25	43	56	88
Station 2	CFUs per ml	1.1×10^{2}	1.3×10^{6}	2.4×10^{6}	1.3×10^{6}	2.7×10^{6}	1.3×10^{6}
STRAIN		% OF TOTAL CFUs					
		-	-	-	-	-	-

- Plates desicated before analysis was attempted

+ Lost in culture

* in progress

TABLE 2 CONT.'D

Cruise 3
Transect II
Station 3

	With SLCO		TIME (DAYS)			
DATE	4/25	5/7	5/20	6/7	6/20	7/22
	0	2	25	43	56	88
CFUs per ml	5.3×10^1	4.3×10^5	7.8×10^5	3.9×10^6	4.3×10^5	1.2×10^5
STRAIN	% OF TOTAL CFUs					
	-	-	-	-	-	-

- Plates desicated before analysis was attempted
+ Lost in culture
* in progress

TABLE 2 CONT.'D

Without SLCO TIME (DAYS)

Cruise 4 DATE	6/10	6/20	7/2	7/22	8/10	
Transect II	0	10	22	42	61	
Station 1 CFUs per ml	3.3×10^2	2.4×10^6	8.4×10^5	1.3×10^6	9.2×10^5	
STRAIN	% OF TOTAL CFUs					
Unknown 1-4	4.4	-	-	-	0	
Unknown 2-4	8.8	-	-	-	0	
Unknown 3-4	50.6	-	-	-	0	
Unknown 4-4	26.3	-	-	-	0	
Unknown 5-4	1.1	-	-	-	0	
Unknown 6-4	1.1	-	-	-	0	
Unknown 7-4	2.2	-	-	-	0	
Unknown 8-4	4.4	-	-	-	0	
Unknown 9-4	1.1	-	-	-	0	
Pseudomonas #5	0	-	-	-	17.0	
Micrococcus	0	-	-	-	12.9	
Coryneform C	0	-	-	-	12.9	
Unknown Ps #6*	0	-	-	-	26.6	
Pseudomonas #2	0	-	-	-	13.7	
Coryneform D	0	-	-	-	13.6	
Unknown Ps #7(b)*	0	-	-	-	3.3	

- Plates desicated before analysis was attempted

+ Lost in culture

* in progress

TABLE 2 CONT.'D

	Without SLCO		TIME (DAYS)			
Cruise 4 DATE	6/10	6/20	7/2	7/22	8/10	
Transect II	0	10	22	42	61	
Station 2 CFUs per ml	1.2×10^{2}	7.5×10^{4}	2.0×10^{5}	2.3×10^{5}	1.4×10^{5}	
STRAIN	% OF TOTAL CFUs					
Unknown Ps #6*	–	–	–	–	41.6	
Pseudomonas #5	–	–	–	–	8.2	
Micrococcus	–	–	–	–	2.1	
Coryneform B	–	–	–	–	23.2	
Pseudomonas #2	–	–	–	–	2.1	
Coryneform D	–	–	–	–	18.4	
Unknown Ps #8*	–	–	–	–	4.4	

- Plates desicated before analysis was attempted

+ Lost in culture

* in progress

TABLE 2 CONT.'D

Cruise 4 Transect II Station 3	Without SLCO DATE	TIME (DAYS) 6/10	6/20	7/2	7/22	8/10	
		0	10	22	42	61	
	CFUs per ml	3.0×10^2	6.6×10^4	1.8×10^5	9.5×10^4	4.0×10^4	
STRAIN		% OF TOTAL CFUs					
Unknown 10-4		-	-	-	-	13.0	
Unknown Ps #6*		-	-	-	-	6.8	
Coryneform C		-	-	-	-	18.9	
Coryneform D		-	-	-	-	21.4	
Pseudomonas #4		-	-	-	-	18.9	
Pseudomonas #5		-	-	-	-	0.3	
Pseudomonas #3		-	-	-	-	2.2	
Unknown Ps #7(p)		-	-	-	-	18.5	

- Plates desicated before analysis was attempted

+ Lost in culture

* in progress

TABLE 2 CONT.'D

Cruise 4 DATE	~~With SLCO~~ 6/10	TIME (DAYS) 6/20	7/2	7/22	8/10	
Transect II	0	10	22	42	61	
Station 1 CFUs per ml	3.3×10^2	**	6.9×10^5	8.0×10^5	9.2×10^5	
STRAIN	% OF TOTAL CFUs					
Unknown 1-4	4.4	–	–	–	0	
Unknown 2-4	8.8	–	–	–	0	
Unknown 3-4	50.6	–	–	–	0	
Unknown 4-4	26.3	–	–	–	0	
Unknown 5-4	1.1	–	–	–	0	
Unknown 6-4	1.1	–	–	–	0	
Unknown 7-4	2.2	–	–	–	0	
Unknown 8.4	4.4	–	–	–	0	
Unknown 9.4	1.1	–	–	–	0	
Unknown Ps #6*	0	–	–	–	37.5	
Unknown 10-4	0	–	–	–	46.6	
Pseudomonas #1	0	–	–	–	13.6	
Micrococcus	0	–	–	–	1.1	
Unknown Ps #7(y)*	0	–	–	–	1.2	

- Plates desicated before analysis was attempted

+ Lost in culture

* in progress

** no growth on plates

TABLE 2 CONT.'D

With SLCO

TIME (DAYS)

Cruise 4
Transect II
Station 2

DATE	6/10	6/20	7/2	7/22	8/10	
	0	10	22	42	61	
CFUs per ml	1.2×10^2	4.5×10^5	1.6×10^5	2.1×10^5	1.4×10^5	
STRAIN	% OF TOTAL CFUs					
Unknown 10-4	–	–	–	–	17.0	
Pseudomonas #1	–	–	–	–	25.5	
Coryneform B	–	–	–	–	12.8	
Unknown Ps #7(y)*	–	–	–	–	14.9	
Unknown Ps #6*	–	–	–	–	29.8	

- Plates desicated before analysis was attempted
+ Lost in culture
* in progress

TABLE 2 CONT.'D

With SLCO

Cruise 4 Transect II Station 3		TIME (DAYS)				
DATE	6/10	6/20	7/2	7/22	8/10	
	0	10	22	42	61	
CFUs per ml	3.0×10^2	2.5×10^4	1.5×10^5	2.5×10^4	4.0×10^4	
STRAIN	% OF TOTAL CFUs					
Pseudomonas #2	-	-	-	-	44.8	
Coryneform B	-	-	-	-	31.7	
Coryneform C	-	-	-	-	19.1	
Pseudomonas #1	-	-	-	-	2.4	
Unknown Ps #8*	-	-	-	-	1.0	
Pseudomonas #3	-	-	-	-	1.0	

- Plates desicated before analysis was attempted

+ Lost in culture

* in progress

TABLE 2 CONT.'D

	Without SLCO		TIME (DAYS)			
Cruise 5 DATE	7/9	7/22	8/10	9/2	9/16	
Transect II	0	L3	32	55	69	
Station 1 CFUs per ml	1.7×10^2	1.3×10^5	1.4×10^5	6.2×10^5	2.7×10^5	
STRAIN	% OF TOTAL CFUs					
Pseudomonas #3	50.5	-	0	0	0	
Unknown 1-5	38.3+	-	7.2+	0	0	
Unknown 2-5	8.0	-	0	0	0	
Unknown 3-5	1.0	-	0	0	0	
Unknown 4-5	2.2	-	0	0	0	
Unknown 7-5	0	-	3.1	0	0	
Coryneform D	0	-	9.3	0	0	
Pseudomonas #2	0	-	40.2	0	0	
Unknown Ps #6*	0	-	0	60.0	85.2	
Pseudomonas #1	0	-	0	0	2.4	
Unknown Ps #5(p)*	0	-	0	2.7	0	
Unknown 6-5	0	-	0	13.3	0	
Unknown 8-5	0	-	0	24.0	0	
Flavobacterium III	0	-	0	0	2.4	
Moraxella	0	-	0	0	5.9	
Acinetobacter	0	-	0	0	4.1	
Coryneform B	0	-	40.2	0	0	

- Plates desicated before analysis was attempted

+ Lost in culture

* in progress

TABLE 2 CONT.'D

Without SLCO TIME (DAYS)

Cruise 5 DATE	7/9	7/22	8/10	9/2	9/16	
Transect II	0	13	32	55	69	
Station 2 CFUs per ml	9.4×10^2	3.5×10^5	1.3×10^5	2.5×10^5	1.5×10^5	
STRAIN	% OF TOTAL CFUs+					
Unknown Ps #6	-	-	74.4	21.7	51.4	
Pseudomonas #5	-	-	1.3	0	0	
Flavobacterium I	-	-	14.1	8.7	8.1	
Pseudomonas #1	-	-	5.1	0	0	
Unknown Ps #7(b)*	-	-	5.1	0	0	
Unknown 6-5	-	-	0	4.3	0	
Unknown 1-5	-	-	0	65.3	0	
Unknown 7-5	-	-	0	0	40.5	

- Plates desicated before analysis was attempted

+ Lost in culture

* in progress

TABLE 2 CONT.'D

Without SLCO

	TIME (DAYS)				
Cruise 5 DATE	7/9	7/22	8/10	9/2	9/16
Transect II	0	13	32	55	69
Station 3 CFUs per ml	6.7×10^1	1.5×10^5	4.4×10^5	1.4×10^5	1.1×10^5
STRAIN	% OF TOTAL CFUs				
Unknown Ps #7$_{(b)}^{*}$	-	-	4.8	0	0
Unknown Ps #7$_{(y)}^{*}$	-	-	52.4	1.9	2.3
Unknown Ps #6*	-	-	14.3	53.8	79.0
Pseudomonas #5	-	-	7.1	0	5.7
Pseudomonas #1	-	-	7.2	17.2	0
Coryneform D	-	-	9.7	0	0
Unknown 2-5	-	-	4.8	0	0
Acinetobacter	-	-	4.7	0	0
Pseudomonas #3	-	-	0	27.1	0
Pseudomonas #4	-	-	0	0	10.2
Actinomycetes	-	-	0	0	2.8

- Plates desicated before analysis was attempted

+ Lost in culture

* in progress

TABLE 2 CONT.'D

WITH SLCO

Cruise 5 / Transect II / Station 1		TIME (DAYS)				
DATE	7/9	7/22	8/10	9/2	9/16	
	0	13	32	55	69	
CFUs per ml	1.7×10^2	4.3×10^4	3.2×10^6	1.3×10^5	8.2×10^4	
STRAIN	% OF TOTAL CFUs					
Pseudomonas #3	50.5	–	58.3	0	0	
Unknown 1-5	38.3	–	0	0	0	
Unknown 2-5	8.0	–	0	0	0	
Unknown 3-5	1.0	–	0	0	0	
Unknown 4-5	2.2	–	0	0	0	
Unknown 5-5	0	–	16.7	0	0	
Flavobacterium II	0	–	25.0	38.9	1.6	
Unknown Ps #5$_{(y)}^{*}$	0	–	0	5.6	0	
Unknown Ps #6*	0	–	0	55.5	98.4	

– Plates desicated before analysis was attempted
+ Lost in culture
* in progress

TABLE 2 CONT.'D

With SLCO TIME (DAYS)

Cruise 5	DATE	7/9	7/22	8/10	9/2	9/16	
Transect II		0	13	32	55	69	
Station 2	CFUs per ml	9.4×10^1	1.8×10^5	2.4×10^5	8.2×10^4	8.8×10^4	
STRAIN		% OF TOTAL CFUs					
Unknown Ps #6*		-	-	-	100	99.0	
Coryneform D		-	-	-	0	1.0	

- Plates desicated before analysis was attempted

+ Lost in culture

* in progress

TABLE 2 CONT.'D

With SLCO

TIME (DAYS)

Cruise 5	DATE	7/9	7/22	8/10	9/2	9/16	
Transect II		0	1	32	55	69	
Station 3	CFUs per ml	6.7×10^1	1.9×10^5	4.4×10^5	1.7×10^5	1.2×10^5	
STRAIN		% OF TOTAL CFUs					
Unknown Ps #6*		-	-	7.1	1.9	20.0	
Unknown Ps #7$_{(y)}$*		-	-	78.6	0	0	
Pseudomonas #5		-	-	11.9	17.3	0	
Unknown Ps #5$_{(y)}$*		-	-	0	36.6	0	
Unknown Ps #5$_{(p)}$*		-	-	0	36.6	0	
Pseudomonas #1		-	-	2.4	1.9	2.5	
Flavobacterium II		-	-	0	1.9	0	
Acinetobacter		-	-	0	3.8	0	
Unknown 1-5		-	-	0	0	75.0	
Unknown 6-5		-	-	0	0	2.5	

- Plates desicated before analysis was attempted

+ Lost in culture

* in progress

TABLE 2 CONT.'D

Without SLCO TIME (DAYS)

Cruise 6 DATE	8/6	8/13	9/2	9/16	10/6	10/26
Transect II	0	7	27	41	61	81
Station 1 CFUs per ml	1.8×10^2	2.1×10^5	3.2×10^5	4.1×10^4	4.2×10^4	2.8×10^4
STRAIN	% OF TOTAL CFUs					
Unknown Ps #5$_{(y)}^{*}$	66.2	64.0	0	0	0	0
Pseudomonas #5	0	0	31.1	0	0	1.8
Unknown Ps #7$_{(y)}^{*}$	2.7	0	0	0	0	67.3
Unknown Ps #6*	0	16.0	31.1	80.7	0	0
Coryneform C	1.4	0	3.3	0	0	0
Unknown 1-6	1.4	0	0	0	0	0
Unknown 2-6	1.4	0	0	0	0	0
Unknown 3-6	1.4	0	0	0	0	0
Unknown 4-6	0	0	0	3.5	0	0
Vibrio*	25.5	0	0	0	0	0
Pseudomonas #1	0	16.0	0	0	55.6	0
Unknown 8-6	0	4.0	0	0	0	0
Pseudomonas #4	0	0	0	15.8	0	0
Unknown Ps #8$_{(a)}^{*}$	0	0	0	0	11.1	0
Pseudomonas #3	0	0	0	0	33.3	0
Coryneform B	0	0	5.6	0	0	0
Acinetobacter	0	0	28.9	0	0	0
Pseudomonas #2	0	0	0	0	0	1.8
Flavobacterium I	0	0	0	0	0	9.1
Unknown 13-6	0	0	0	0	0	20.0^{+}

- Plates desicated before analysis was attempted

+ Lost in culture

* in progress

TABLE 2 CONT.'D

Without SLCO TIME (DAYS)

Cruise 6
Transect II
Station 2

DATE	8/6	8/13	9/2	9/16	10/6	10/26
	0	7	27	41	61	81
CFUs per ml	4.1×10^1	9.6×10^4	1.6×10^5	1.4×10^5	1.6×10^5	1.9×10^5
STRAIN	% OF TOTAL CFUs					
Actinomycetes	29.2	-	0	0	0	0
Unknown Ps #6*	8.3	-	70.5	68.0	41.7	0
Unknown Ps #7$_{(y)}^{*}$	8.3	-	2.6	0	11.1	23.7
Unknown 2-6	4.2	-	0	0	0	0
Vibrio*	29.1	-	0	0	0	0
Unknown 6-6	8.4	-	0	0	0	0
Unknown 8-6	4.2	-	0	0	0	0
Unknown 14-6	8.3	-	0	0	0	0
Acinetobacter	0	-	26.9	0	0	0
Pseudomonas #1	0	-	0	32.0	0	1.4
Unknown 13-6	0	-	0	0	32.4	0
Bacillus	0	-	0	0	8.5	0
Unknown Ps #5$_{(y)}^{*}$	0	-	0	0	2.8	0
Coryneform B	0	-	0	0	0.7	49.3
Unknown 15-6	0	-	0	0	0	23.9
Coryneform D	0	-	0	0	0.7	0
Coryneform E	0	-	0	0	0.7	0
Unknown Ps #7$_{(t)}^{*}$	0	-	0	0	1.4	2.7

- Plates desicated before analysis was attempted

+ Lost in culture

* in progress

TABLE 2 CONT.'D

Without SLCO

TIME (DAYS)

Cruise 6 DATE	8/6	8/13	9/2	9/16	10/2	10/26
Transect II	0	7	27	41	61	81
Station 3 CFUs per ml	4.6×10^{1}	1.7×10^{5}	8.1×10^{4}	4.7×10^{4}	1.5×10^{4}	1.3×10^{4}
STRAIN	% OF TOTAL CFUs					
Unknown Ps #6*	-	56.5	80.0	0	75.0	91.7
Unknown Ps #7$_{(y)}^{*}$	-	0	0	100.0	0	0
Vibrio*	-	39.1^{+}	0	0	0	0
Pseudomonas #5	-	0	0	0	25.0	0
Unknown Ps #5$_{(y)}^{*}$	-	0	0	0	0	8.3
Pseudomonas #1	-	4.4	20.0	0	0	0

- Plates desicated before analysis was attempted

+ Lost in culture

* in progress

TABLE 2 CONT.'D

Cruise 6 Transect II Station 1		With SLCO	TIME (DAYS)				
	DATE	8/6	8/13	9/2	9/16	10/6	10/26
		0	7	27	41	61	81
	CFUs per ml	1.8×10^{2}	4.7×10^{4}	7.7×10^{4}	9.2×10^{4}	7.9×10^{4}	8.7×10^{4}
STRAIN		% OF TOTAL CFUs					
Pseudomonas #5		66.2	-	6.1	26.5	0	0
Unknown Ps #5$_{(y)}^{*}$		0	-	0	10.2	0	0
Unknown Ps #6		2.7	-	6.1	16.3	18.6	22.2
Unknown Ps #7$_{(y)}^{*}$		0	-	54.5	0	77.1	77.8
Unknown Ps #7$_{(br)}^{*}$		0	-	0	5.1	0	0
Coryneform C		1.4	-	0	0	0	0
Pseudomonas #1		1.4	-	27.3	1.0	0	0
Unknown 2-6		1.4	-	0	0	0	0
Unknown 3-6		1.4	-	0	0	0	0
Vibrio*		25.5	-	0	0	0	0
Flavobacterium II		0	-	0	40.9	0	0
Coryneform A		0	-	0	0	0.7	0
Coryneform D		0	-	0	0	2.7	0
Pseudomonas #4		0	-	0	0	1.8	0
Coryneform B		0	-	6.1	0	0	0

- Plates desicated before analysis was attempted

+ Lost in culture

* in progress

TABLE 2 CONT.'D

WITH SLCO TIME (DAYS)

Cruise 6 DATE	8/6	8/13	9/2	9/16	10/2	10/26
Transect II	0	7	27	41	61	81
Station 2 CFUs per ml	4.1×10^{1}	1.5×10^{5}	1.5×10^{5}	2.7×10^{5}	5.4×10^{5}	2.2×10^{5}
STRAIN	% OF TOTAL CFUs					
Actinomycetes	29.2	0	0	0	0	0
Unknown Ps #6*	16.6	0	0	0	22.9	62.5
Unknown Ps #7$_{(y)}$*	0	0	4.8	0	57.7	37.5
Unknown 2-6	4.2	0	0	0	0	0
Unknown 4-6	8.3	0	0	0	0	0
Unknown 5-6	20.8	0	0	0	0	0
Unknown Ps #7$_{(br)}$*	8.4	6.8	0	0	0	0
Unknown 8-6	4.2	0	0	0	0	0
Unknown 14-6	8.3	0	0	0	0	0
Unknown Ps #8$_{(a)}$*	0	56.6	76.2	56.1	19.1	0
Pseudomonas #5	0	36.6	19.0	43.9	0	0

- Plates desicated before analysis was attempted

+ Lost in culture

* in progress

TABLE 2 CONT.'D

With SLCO

Cruise 6 Transect II Station 3	TIME (DAYS)					
DATE	8/6	8/13	9/2	9/16	10/2	10/26
	0	7	27	41	61	81
CFUs per ml	4.6×10^{1}	1.1×10^{5}	3.4×10^{4}	2.5×10^{4}	2.2×10^{4}	2.6×10^{5}
STRAIN	% OF TOTAL CFUs					
Pseudomonas #3	-	-	27.8	90.0	0	0
Coryneform B	-	-	44.4	5.0	0	0
Unknown Ps #6*	-	-	0	0	3.0	50.0
Unknown Ps #7$_{(o)}^{*}$	-	-	0	0	84.8	0
Unknown Ps #7$_{(t)}^{*}$	-	-	0	0	9.2	0
Vibrio*	-	-	27.8^{+}	0	0	0
Unknown Ps #7$_{(y)}^{*}$	-	-	0	0	0	50.0
Unknown 12-6	-	-	0	5.0^{+}	0	0
Unknown 13-6	-	-	0	0	3.0^{+}	0

- Plates desicated before analysis was attempted

+ Lost in culture

* in progress

TABLE 2 CONT.'D

Without SLCO		TIME (DAYS)					
Cruise 7	DATE	10/21	11/10	12/5	2/1		
Transect II		0	20	45	100		
Station 1	CFUs per ml	1.2×10^{4}	5.4×10^{4}	6.8×10^{4}	7.4×10^{5}		
STRAIN		% OF TOTAL CFUs					
Unknown Ps #6*		23.0	50.3	0	46.3		
Unknown Ps #7$_{(y)}^{*}$		61.6	5.4	6.3	0		
Unknown Ps #7$_{(b)}^{*}$		11.5	0	0	0		
Pseudomonas #3		3.9	0	0	0		
Unknown Ps #7$_{(t)}^{*}$		0	4.1	18.7	1.5		
Pseudomonas #5		0	3.2	0	0		
Coryneform D		0	4.2	0	0		
Unknown 6-7		0	6.4	0	0		
Unknown 7-7		0	26.4	0	38.8^{+}		
Unknown Ps #7$_{(o)}^{*}$		0	0	6.3	0		
Unknown 8-7		0	0	62.4	0		
Unknown 9-7		0	0	6.3	0		
Unknown 10-7		0	0	0	13.4^{+}		

- Plates desicated before analysis was attempted

+ Lost in culture

* in progress

TABLE 2 CONT.'D

Qithout SLCO TIME (DAYS)

Cruise 7 DATE	10/21	11/10	12/5	2/1		
Transect II	0	20	45	100		
Station 2 CFUs per ml	7.3×10^1	7.1×10^4	6.7×10^4	2.9×10^4		
STRAIN	% OF TOTAL CFUs					
Actinomycetes	12.5	0	0	-		
Pseudomonas #2 $_{(v-g)}$	6.2	0	0	-		
Vibrio*	12.5	0	0	-		
Unknown 12-7	12.5^+	0	0	-		
Unknown Ps #7$_{(y)}$*	37.5	1.6	0	-		
Unknown 3-7	18.8	0	0	-		
Pseudomonas #5	0	8.2	0	-		
Unknown 7-7	0	70.9^+	0	-		
Unknown 14-7	0	12.9	0	-		
Unknown 8-7	0	0	72.3	-		
Unknown Ps #6*	0	6.4	27.7	-		

- Plates desicated before analysis was attempted

+ Lost in culture

* in progress

TABLE 2 CONT.'D

Without SLCO

Cruise 7
Transect II
Station 3

	TIME (DAYS)					
DATE	10/21	11/10	12/5	2/1		
	0	20	45	100		
CFUs per ml	1.5×10^{1}	2.7×10^{4}	1.6×10^{4}	2.7×10^{5}		
STRAIN	% OF TOTAL CFUs					
Pseudomonas #3	11.1	0	0	–		
Unknown Ps #7$_{(y)}^{*}$	11.1	0	11.3$^{(+)}$			
Unknown 16-7	66.7	0	0	–		
Unknown 15-7	11.1^{+}	8.3^{+}	0	–		
Unknown Ps #6*	0	37.5	5.3	–		
Unknown Ps #5$_{(y)}^{*}$	0	41.7	0	–		
Unknown 17-7	0	12.5	0	–		
Unknown 10-7	0	0	80.4	–		
Unknown Ps #7$_{(o)}^{*}$	0	0	3.0	–		

- Plates desicated before analysis was attempted

+ Lost in culture

* in progress

TABLE 2 CONT.'D

With SLCO TIME (DAYS)

Cruise 7 DATE	10/21	11/10	12/5	2/1		
Transect II	0	20	45	100		
Station 1 CFUs per ml	1.2×10^2	1.2×10^5	1.3×10^5	4.2×10^5		
STRAIN	% OF TOTAL CFUs					
Unknown Ps #6*	23.0	66.7	42.5	7.4		
Unknown Ps #7$_{(y)}^*$	61.6	22.2	55.0	0		
Unknown Ps #7$_{(b)}^*$	11.5	0	0	0		
Pseudomonas #3	3.9	11.1	0	85.2		
Unknown Ps #7$_{(o)}^*$	0	0	2.5	7.4		

- Plates desicated before analysis was attempted

+ Lost in culture

* in progress

TABLE 2 CONT.'D

Cruise 7
Transect II
Station 2

	With SLCO		TIME (DAYS)			
DATE	10/21	11/10	12/5	2/1		
	0	20	45	100		
CFUs per ml	7.3×10^{1}	9.6×10^{4}	1.2×10^{5}	6.8×10^{5}		
STRAIN	% OF TOTAL CFUs					
Actinomycetes	12.5	0	0	0		
Pseudomonas #2$_{(v-g)}$	6.2	0	0	0		
Vibrio*	12.5	0	0	0		
Unknown 12-7	12.5^{+}	0	0	0		
Unknown Ps #7$_{(y)}^{*}$	37.5	12.5	0	0		
Unknown 3-7	18.8	0	0	0		
Unknown Ps #6*	0	50.0	0	85.3		
Unknown Ps #5$_{(b)}^{*}$	0	25.0	7.2	1.7		
Unknown Ps #7$_{(t)}$	0	12.5	42.9	0		
Unknown Ps #5$_{(t)}$	0	0	50.0	0		
Unknown 7-7	0	0	0	11.3		
Pseudomonas #5	0	0	0	1.7		

- Plates desicated before analysis was attempted
+ Lost in culture
* in progress

TABLE 2 CONT.'D

Cruise 7
Transect II
Station 3

	WithSLCO	TIME (DAYS)				
DATE	10/21	11/10	12/5	2/1		
	0	20	45	100		
CFUs per ml	1.5×10^{1}	5.9×10^{4}	4.2×10^{4}	7.2×10^{4}		
STRAIN	% OF TOTAL CFUs					
Pseudomonas #3	11.1	0	25.0	0		
Unknown Ps #7$_{(y)}^{*}$	11.1	60.0	0	0		
Unknown 16-7	66.7	0	0	0		
Unknown 15-7	11.1^{+}	0	0	0		
Unknown 17-7	0	6.7	0	0		
Unknown Ps #5$_{(y)}^{*}$	0	33.3	0	0		
Unknown Ps #7$_{(t)}^{*}$	0	0	50.0	0		
Unknown Ps #6*	0	0	12.5	0		
Pseudomonas #5	0	0	12.5	100.0		

- Plates desicated before analysis was attempted

+ Lost in culture

* in progress

TABLE 2 CONT.'D

Without SLCO TIME (DAYS)

Cruise 8 DATE	11/20	12/7	1/3	2/9	4/19	
Transect II	0	17	44	84	122	
Station 1 CFUs per ml	4.0×10^{1}	7.2×10^{4}	6.8×10^{4}	3.7×10^{4}	4.8×10^{4}	
STRAIN	% OF TOTAL CFUs					
Unknown Ps #6*	58.8	76.9	-	55.0	-	
Unknown Ps #7$_{(y)}^{*}$	35.3	3.1	-	45.0	-	
Unknown 2-8	5.9	0	-	0	-	
Unknown 1-8	0	20.0	-	0	-	

- Plates desicated before analysis was attempted

+ Lost in culture

* in progress

TABLE 2 CONT.'D

Without SLCO TIME (DAYS)

Cruise 8 DATE	11/20	12/7	1/3	2/9	4/19	
Transect II	0	17	44	84	122	
Station 2 CFUs per ml	3.0×10^{1}	1.2×10^{4}	3.3×10^{3}	6.5×10^{3}	2.0×10^{4}	
STRAIN	% OF TOTAL CFUs					
Unknown Ps #6*	46.2	38.5	-	0	-	
Unknown Ps #7(y)*	23.1	53.8	-	83.3	-	
Unknown 9-8	23.0	0	-	0	-	
Unknown 10-8	7.7	0	-	0	-	
Unknown 14-8	0	38.5	-	0	-	
Unknown 7-8	0	7.7	-	0	-	
Pseudomonas #4	0	0	-	16.7	-	

- Plates desicated before analysis was attempted

+ Lost in culture

* in progress

TABLE 2 CONT.'D

Without SLCO TIME (DAYS)

Cruise 8 DATE	11/20	12/7	1/3	2/9	4/19	
Transect II	0	17	44	84	122	
Station 3 CFUs per ml	1.9×10^1	2.9×10^5	1.7×10^5	2.1×10^5	3.8×10^4	
STRAIN	% OF TOTAL CFUs					
Unknown Ps #6*	99.9	91.6	-	11.2	-	
Vibrio*	1.0	0	-		-	
Unknown Ps #7$_{(R)}$*	0	4.2	-	15.4	-	
Unknown Ps #7$_{(b)}$*	0	4.2	-	0	-	
Unknown Ps #7$_{(y)}$*	0	0	-	7.7	-	
Unknown 4-8	0	0	-	65.4	-	

- Plates desicated before analysis was attempted

+ Lost in culture

* in progress

TABLE 2 CONT.'D

Cruise 8
Transect II
Station 1

With SLCO

	TIME (DAYS)					
DATE	11/20	12/7	1/3	2/9	4/19	
	0	17	44	84	122	
CFUs per ml	4.0×10^{1}	7.6×10^{5}	4.3×10^{5}	9.2×10^{5}	2.8×10^{5}	
STRAIN	% OF TOTAL CFUs					
Unknown Ps $\#6^{*}$	58.8	95.3	47.0	30.9	–	
Unknown Ps $\#7_{(y)}^{*}$	35.3	0	3.0	15.0	–	
Unknown 2-8	5.9	0	0	0	–	
Unknown 5-8	0	0	0	45.6^{+}	–	
Unknown Ps $\#7_{(o)}^{*}$	0	0	3.0	0	–	
Unknown Ps $\#7_{(t)}^{*}$	0	4.7	45.0	8.5	–	

– Plates desicated before analysis was attempted
+ Lost in culture
* in progress

TABLE 2 CONT.'D

Cruise 8
Transect II
Station 2

	With SLCO		TIME (DAYS)			
DATE	11/20	12/7	1/3	2/9	4/19	
	0	17	44	84	122	
CFUs per ml	3.0×10^1	4.3×10^4	1.4×10^4	1.2×10^4	4.4×10^4	
STRAIN	% OF TOTAL CFUs					
Unknown Ps #6*	46.2	11.1	14.0	0	-	
Unknown Ps #7$_{(y)}$*	23.1	0	0	0	-	
Unknown 9-8	23.0	0	0	0	-	
Unknown 10-8	7.7	0	0	0	-	
Vibrio*	0	77.8	0	0	-	
Vibrio*	0	11.1	14.0	0	-	
Unknown 7-8	0	0	58.0	0	-	
Unknown Ps #5$_{(y)}$*	0	0	0	62.5	-	
Unknown 6-8	0	0	0	25.0	-	
Unknown 13-8	0	0	0	12.5	-	
Unknown Ps #7$_{(t)}$*	0	0	14.0	0	-	

- Plates desicated before analysis was attempted
+ Lost in culture
* in progress

TABLE 2 CONT.'D

With SLCO

TIME (DAYS)

Cruise 8 Transect II Station 3					
DATE	11/20	12/7	1/3	2/9	4/19
	0	17	44	84	122
CFUs per ml	1.9×10^1	5.9×10^5	2.5×10^5	3.4×10^5	3.4×10^5
STRAIN	% OF TOTAL CFUs				
Unknown Ps #6*	75.0	57.6	13.0	98.3	-
Vibrio*	25.0	42.4	36.0	0	-
Pseudomonas #5	0	0	40.0	0	-
Unknown Ps #7(y)*	0	0	7.0	0	-
Unknown 16-8	0	0	4.0	0	-
Unknown Ps #7(o)*	0	0	0	1.7	-

- Plates desicated before analysis was attempted

+ Lost in culture

* in progress

TABLE 2 CONT.'D

Without SLCO

TIME (DAYS)

Cruise 9 DATE	12/16	1/3	2/20	4/19		
Transect II	0	18	66	124		
Station 2 CFUs per ml	5.9×10^1	1.6×10^5	7.1×10^4	6.6×10^5		
STRAIN	% OF TOTAL CFUs					
Acinetobacter	5.5	0	4.5	-		
Pseudomonas #3	44.0	0	0	-		
Unknown Ps #6*	50.5	22.8	6.0	-		
Unknown Ps #7(y)*	0	7.9	1.5	-		
Pseudomonas #2	0	3.8	0	-		
Unknown 7-9	0	1.9+	0	-		
Unknown 10-9	0	63.9+	0	-		
Unknown 11-9	0	3.8+	0	-		
Pseudomonas #5	0	0	1.5	-		
Flavobacterium II	0	0	86.5	-		

- Plates desicated before analysis was attempted

+ Lost in culture

* in progress

TABLE 2 CONT.'D

Without SLCO TIME (DAYS)

Cruise 9
Transect II
Station 3

DATE	12/16	1/3	2/20	4/19		
	0	18	66	124		
CFUs per ml	1.4×10^{1}	1.4×10^{4}	1.8×10^{4}	1.0×10^{4}		
STRAIN	% OF TOTAL CFUs					
Pseudomonas #3	50.0	0	0	-		
Unknown Ps #7(y)*	50.0	0	0	-		
Vibrio*	0	45.6	0	-		
Unknown Ps #6*	0	54.4	100.0	-		

- Plates desicated before analysis was attempted

+ Lost in culture

* in progress

TABLE 2 CONT.'D

	Without SLCO		TIME (DAYS)			
Cruise 9 DATE	12/16	1/3	2/20	4/19		
Transect II	0	18	66	124		
Station 1 CFUs per ml	1.6×10^2	3.2×10^5	1.7×10^5	1.4×10^5		
STRAIN	% OF TOTAL CFUs					
Pseudomonas #3	22.6	-	0	-		
Flavobacterium I	25.8	-	0	-		
Vibrio*	35.5	-	0	-		
Vibrio*	3.2	-	0	-		
Unknown 3-9	12.9	-	0	-		
Unknown Ps #7(y)*	0	-	21.5	-		
Unknown Ps #7(o)*	0	-	7.0	-		
Unknown Ps #6	0	-	42.9	-		
Unknown 7-9	0	-	14.3+	-		
Unknown 8-9(b)*	0	-	14.3+	-		

- Plates desicated before analysis was attempted

+ Lost in culture

* in progress

TABLE 2 CONT.'D

	With SLCO	TIME (DAYS)				
Cruise 9 DATE	12/16	1/3	2/20	4/19		
Transect II	0	18	66	124		
Station 1 CFUs per ml	1.6×10^2	2.3×10^5	1.8×10^5	3.5×10^5		
STRAIN	% OF TOTAL CFUs					
Pseudomonas #3	22.6	-	0	-		
Flavobacterium I	25.8	-	0	-		
Vibrio*	35.5	-	0	-		
Vibrio*	3.2	-	0	-		
Unknown 12-9	12.9	-	0	-		
Pseudomonas #1	0	-	4.3	-		
Unknown Ps #5*	0	-	4.3	-		
Unknown Ps #6*	0	-	6.5	-		
Unknown Ps #7(y)*	0	-	26.1	-		
Flavobacterium II	0	-	4.3	-		
Unknown 7-9	0	-	10.9+	-		
Unknown 10-9	0	-	43.6+	-		

- Plates desicated before analysis was attempted

+ Lost in culture

* in progress

TABLE 2 CONT.'D

TIME (DAYS)

Cruise 9 DATE	With SLCO 12/16	1/3	2/20	4/19		
Transect II	0	18	66	124		
Station 2 CFUs per ml	1.4×10^1	2.3×10^5	8.8×10^4	1.5×10^5		
STRAIN	% OF TOTAL CFUs					
Acinetobacter	5.5	0	0	-		
Pseudomonas #3	44.0	0	0	-		
Unknown Ps #6*	50.5	77.8	0	-		
Unknown 6-9	0	0	100.0$^+$	-		
Unknown 11-9	0	22.2	0	-		

- Plates desicated before analysis was attempted

+ Lost in culture

* in progress

TABLE 2 CONT.'D

With SLCO TIME (DAYS)

Cruise 9 Transect II Station 3						
DATE	12/16	1/3	2/20	4/19		
	0	18	66	124		
CFUs per ml	1.4×10^1	6.1×10^4	6.8×10^3	6.1×10^3		
STRAIN	% OF TOTAL CFUs					
Pseudomonas #3	50.0	-	0	-		
Unknown Ps #6*	50.0	-	100.0	-		

- Plates desicated before analysis was attempted

+ Lost in culture

* in progress

TABLE 3

OIL DEGRADATION SUMMARIES PER CRUISE FOR 1977
SATURATED VS. AROMATIC HYDROCARBON DISTRIBUTION

Explanation of Table:

- 3a - Cruise 1 - Winter
  - A. Saturated
  - B. Aromatic
- 3b - Cruise 2 - March
  - A. Saturated
  - B. Aromatic
- 3c - Cruise 3 - April
  - A. Saturated
  - B. Aromatic
- 3d - Cruise 4 - Spring
  - A. Saturated
  - B. Aromatic
- 3e - Cruise 5 - July
  - A. Saturated
  - B. Aromatic
- 3f - Cruise 6 - August
  - A. Saturated
  - B. Aromatic
- 3g - Cruise 7 - Fall
  - A. Saturated
  - B. Aromatic
- 3h - Cruise 8 - November
  - A. Saturated
  - B. Aromatic
- 3i - Cruise 9 - December
  - A. Saturated
  - B. Aromatic
- 3j - First Nutrient Experiment
  - A. Saturated
  - B. Aromatic
- 3k - Second Nutrient Experiment
  - A. Saturated
  - B. Aromatic
- 31 - Extraction Experiment Summary
  - A. Saturated
  - B. Aromatic

Sample Number:
First Digit - Cruise No.
Second Digit - Station
Third Digit - Replicate No.
Remaining Digits - Date

Example: 111217
Cruise 1 (winter)
Station 1
Replicate 1
February 17

TABLE 3-a

Summary for Cruise 1 succession:

A. Saturated Hydrocarbon Distribution For All Samples

Sequence	Sample Number	Treatment (Days)
1	*111217	1, 0
2	112217	1, 0
3	111328	1, 39
4	112328	1, 39
5	121328	1, 39
6	122328	1, 39
7	131328	1, 39
8	132328	1, 39
9	111415	1, 57
10	112415	1, 57
11	121415	1, 57
12	122415	1, 57
13	131415	1, 56
14	132415	1, 57
15	111507	1, 79
16	112507	1, 79
17	121507	1, 79
18	122507	1, 79
19	131507	1, 79
20	132507	1, 79
21	113507	1, Sterile Weathering Control (79-day)
22	114507	1, Sterile Weathering Control (79-day)

* For all samples the first digit is the cruise, the second is the station, the third is the replicate and other numbers are dates or sample treatments.

TABLE 3-a CONT.'D

```
NAME            PERCENT COMPOSITION              PERCENTAGE OF
----                 1100-3200                     1600-3200

1100                   3.7
1150                   0.0
1200                   0.0
1253                   3.4
1300                   9.5
1356                   7.1
1400                  11.4
1440                   9.4
1500                  10.0
1551                   3.3
1600                   6.5                           15.4
1670                   4.4                           10.5
1700                   6.0                           14.2
1780                   1.3                            3.0
1800                   4.0                            9.5
1851                   2.0                            4.6
1900                   3.6                            8.5
2000                   2.7                            6.4
2100                   2.2                            5.1
2200                   1.9                            4.6
2300                   1.5                            3.6
2400                   1.1                            2.5
2500                    .9                            2.2
2600                    .9                            2.1
2700                    .7                            1.8
2800                   1.0                            2.3
2900                    .7                            1.6
3000                    .4                            1.0
3100                    .5                            1.1
3200                   0.0                            0.0

PR/PH                            3.504

PR/1700                           .739

PH/1800                           .317

SUM OF THE N-ALKANES 1600-3200 / PR+PH      6.052
```

TABLE 3-a CONT.'D

```
NAME                PERCENT COMPOSITION          PERCENTAGE OF
----                    1100-3200                  1600-3200

1100                     3.3
1150                     0.0
1200                     5.7
1253                     3.2
1300                     9.2
1356                     6.6
1400                    10.4
1440                     8.7
1500                     9.1
1551                     3.1
1600                     6.2                         15.2
1670                     4.3                         10.6
1700                     5.9                         14.4
1780                     1.2                          3.0
1800                     4.0                          9.8
1851                     1.9                          4.6
1900                     3.5                          8.6
2000                     2.6                          6.4
2100                     2.0                          5.0
2200                     1.8                          4.4
2300                     1.4                          3.4
2400                     1.0                          2.4
2500                      .9                          2.2
2600                     1.0                          2.5
2700                      .7                          1.7
2800                      .9                          2.3
2900                      .5                          1.3
3000                      .4                           .9
3100                      .5                          1.3
3200                     0.0                          0.0

PR/PH                             3.568

PR/1700                            .732

PH/1800                            .302

SUM OF THE N-ALKANES 1600-3200 / PR+PH     6.054
```

TABLE 3-a CONT.'D

```
NAME              PERCENT COMPOSITION              PERCENTAGE OF
----                  1100-3200                      1600-3200

1100                  2.1
1150                  0.0
1200                  4.3
1253                  3.7
1300                  9.0
1356                  6.8
1400                 10.9
1440                  9.1
1500                  9.7
1551                  3.2
1600                  6.1                               14.9
1670                  4.5                               10.9
1700                  6.0                               14.5
1780                  1.3                                3.2
1800                  4.0                                9.8
1851                  1.8                                4.5
1900                  3.5                                8.4
2000                  2.6                                6.3
2100                  2.0                                4.9
2200                  1.8                                4.4
2300                  1.4                                3.5
2400                  1.0                                2.4
2500                   .9                                2.2
2600                  1.0                                2.5
2700                   .7                                1.8
2800                  1.0                                2.3
2900                   .5                                1.3
3000                   .4                                1.0
3100                   .5                                1.2
3200                  0.0                                0.0

PR/PH                               3.438

PR/1700                              .753

PH/1800                              .324

SUM OF THE N-ALKANES 1600-3200 / PR+PH       5.779
```

TABLE 3-a CONT.'D

```
NAME          PERCENT COMPOSITION          PERCENTAGE OF
----               1100-3200                 1600-3200

1100                  0.0
1150                  0.0
1200                  6.4
1253                  3.9
1300                  9.0
1356                  6.4
1400                 10.1
1440                  8.7
1500                  9.4
1551                  3.2
1600                  6.2                        14.6
1670                  4.7                        11.0
1700                  6.2                        14.6
1780                  1.4                         3.3
1800                  4.3                        10.1
1851                  2.0                         4.6
1900                  3.7                         8.7
2000                  2.7                         6.4
2100                  2.1                         4.9
2200                  1.9                         4.3
2300                  1.5                         3.4
2400                  1.0                         2.4
2500                  1.0                         2.3
2600                  1.1                         2.6
2700                   .7                         1.7
2800                  1.1                         2.6
2900                   .3                          .7
3000                   .3                          .8
3100                   .3                          .7
3200                   .2                          .5

PR/PH                              3.338

PR/1700                             .751

PH/1800                             .326

SUM OF THE N-ALKANES 1600-3200 / PR+PH     5.687
```

TABLE 3-a CONT.'D

```
NAME             PERCENT COMPOSITION           PERCENTAGE OF
----                  1100-3200                  1600-3200

1100                    3.7
1150                    0.0
1200                    5.6
1253                    3.6
1300                    9.0
1356                    6.4
1400                   10.4
1440                    8.9
1500                    9.4
1551                    3.2
1600                    6.2                        15.5
1670                    4.4                        11.1
1700                    5.9                        14.8
1780                    1.2                         3.1
1800                    3.9                         9.7
1851                    1.8                         4.5
1900                    3.3                         8.3
2000                    2.4                         6.0
2100                    2.0                         4.9
2200                    1.8                         4.4
2300                    1.4                         3.5
2400                    1.0                         2.5
2500                     .9                         2.3
2600                    1.0                         2.5
2700                     .7                         1.8
2800                     .9                         2.3
2900                     .5                         1.2
3000                     .3                          .7
3100                     .4                          .9
3200                    0.0                         0.0

PR/PH                             3.611

PR/1700                            .753

PH/1800                            .317

SUM OF THE N-ALKANES 1600-3200 / PR+PH      5.735
```

TABLE 3-a CONT.'D

NAME	PERCENT COMPOSITION 1100-3200	PERCENTAGE OF 1600-3200
1100	2.3	
1150	0.0	
1200	4.6	
1253	3.0	
1300	7.8	
1356	6.1	
1400	10.2	
1440	8.9	
1500	9.5	
1551	3.2	
1600	6.3	14.2
1670	5.1	11.4
1700	6.5	14.5
1780	1.7	3.8
1800	4.5	10.1
1851	2.0	4.5
1900	3.7	8.3
2000	2.8	6.2
2100	2.2	5.0
2200	1.9	4.3
2300	1.6	3.6
2400	1.1	2.5
2500	1.0	2.2
2600	1.1	2.6
2700	.6	1.3
2800	1.5	3.4
2900	1.0	2.2
3000	0.0	0.0
3100	0.0	0.0
3200	0.0	0.0

PR/PH 3.028

PR/1700 .782

PH/1800 .373

SUM OF THE N-ALKANES 1600-3200 / PR+PH 5.314

TABLE 3-a CONT.'D

```
RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE  132328-1


NAME               PERCENT COMPOSITION          PERCENTAGE OF
----                    1100-3200                  1600-3200

1100                     4.2
1150                      .6
1200                     8.7
1253                     5.3
1300                     9.6
1356                     6.8
1400                     9.6
1440                     8.4
1500                     8.5
1551                     3.4
1600                     4.2                          11.9
1670                     4.5                          12.7
1700                     5.4                          15.5
1780                     1.8                           5.0
1800                     3.7                          10.5
1851                     1.5                           4.2
1900                     2.9                           8.3
2000                     2.1                           6.1
2100                     1.6                           4.7
2200                     1.4                           4.1
2300                     1.2                           3.4
2400                     1.1                           3.1
2500                      .8                           2.2
2600                      .7                           2.0
2700                      .6                           1.7
2800                      .7                           1.9
2900                      .3                           1.0
3000                      .3                            .7
3100                      .4                           1.1
3200                     0.0                           0.0

PR/PH                              2.536

PR/1700                             .819

PH/1800                             .479

SUM OF THE N-ALKANES 1600-3200 / PR+PH        4.410
```

TABLE 3-a CONT.'D

```
RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE  131328-1


NAME            PERCENT COMPOSITION          PERCENTAGE OF
----                1100-3200                  1600-3200

1100                  0.0
1150                  0.0
1200                  0.0
1253                  1.3
1300                  1.9
1356                  4.2
1400                  7.1
1440                  9.1
1500                  9.9
1551                  3.5
1600                  6.8                         10.8
1670                  7.0                         11.1
1700                  9.0                         14.3
1780                  2.2                          3.5
1800                  6.5                         10.3
1851                  2.6                          4.2
1900                  5.9                          9.3
2000                  4.3                          6.9
2100                  3.6                          5.7
2200                  3.5                          5.6
2300                  2.9                          4.5
2400                  2.6                          4.1
2500                  2.2                          3.4
2600                  2.0                          3.1
2700                  1.4                          2.3
2800                   .5                           .8
2900                  0.0                          0.0
3000                  0.0                          0.0
3100                  0.0                          0.0
3200                  0.0                          0.0

PR/PH                           3.124

PR/1700                          .774

PH/1800                          .343

SUM OF THE N-ALKANES 1600-3200 / PR+PH    5.555
```

TABLE 3-a CONT.

G-83

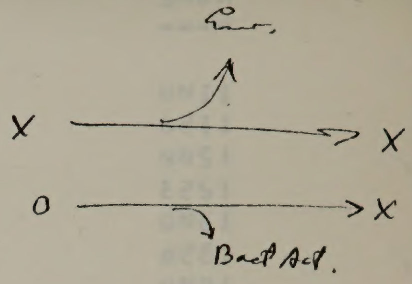
NAME	PERCENT COMPOSITION 1100-3200	PERCENTAGE OF 1600-3200
1100 — C_{11} Normal alkanes	3.7	
1150	0.0	
1200 — C_{12} " "	5.9	
1253	4.2	
1300	9.3	
1356	6.8	
1400	10.4	
1440	9.0	
1500	9.0	
1551	3.1	
1600	5.7	14.6
1670 - Pris.	4.3	11.0
1700	5.4	14.1
1780 - Phyt.	1.2	3.1
1800	3.8	9.7
1851	1.8	4.8
1900	3.3	8.7
2000	2.5	6.5
2100	2.0	5.2
2200	1.8	4.7
2300	1.4	3.6
2400	.9	2.4
2500	.8	2.2
2600	1.0	2.5
2700	.6	1.6
2800	.9	2.4
2900	.4	1.1
3000	.3	.9
3100	.3	.9
3200	0.0	0.0

PR/PH 3.610

PR/1700 $4.3/5.4$ = .786

PH/1800 $1.2/3.8$ = .314

SUM OF THE N-ALKANES 1600-3200 / PR+PH 5.753



Z WC

C_{12} C_{12}

5.9 − 4.9 =

~~100~~

WC − Sample

~~Sample − WC~~ = Bio A

~~Sample (Z − WC)~~ = Bio

(Z − WC) − Sample = Bio

TABLE 3-a CONT.'D

```
NAME           PERCENT COMPOSITION            PERCENTAGE OF
----               1100-3200                    1600-3200

1100                 3.3
1150                 0.0
1200                 5.6
1253                 3.5
1300                 8.7
1356                 6.5
1400                10.5
1440                 8.9
1500                 9.6
1551                 3.3
1600                 6.1                         15.3
1670                 4.6                         11.5
1700                 6.0                         15.0
1780                 1.4                          3.4
1800                 3.9                          9.8
1851                 1.8                          4.4
1900                 3.3                          8.3
2000                 2.4                          6.0
2100                 1.9                          4.7
2200                 1.6                          4.1
2300                 1.3                          3.3
2400                  .9                          2.3
2500                  .8                          2.1
2600                  .9                          2.3
2700                  .7                          1.7
2800                  .9                          2.3
2900                  .5                          1.3
3000                  .4                          1.1
3100                  .5                          1.1
3200                 0.0                          0.0

PR/PH                             3.369

PR/1700                            .768

PH/1800                            .347

SUM OF THE N-ALKANES 1600-3200 / PR+PH        5.401
```

TABLE 3-a CONT.'D

```
NAME          PERCENT COMPOSITION          PERCENTAGE OF
----              1100-3200                  1600-3200

1100                2.8
1150                0.0
1200                5.4
1253                3.3
1300                8.6
1356                6.3
1400               10.6
1440                8.9
1500                9.7
1551                3.3
1600                6.5                        15.9
1670                4.6                        11.3
1700                6.3                        15.3
1780                1.3                         3.3
1800                4.1                        10.0
1851                1.5                         3.7
1900                3.4                         8.3
2000                2.6                         6.2
2100                2.0                         4.9
2200                1.8                         4.3
2300                1.4                         3.4
2400                1.0                         2.5
2500                 .9                         2.2
2600                1.0                         2.5
2700                 .7                         1.7
2800                1.0                         2.4
2900                 .3                          .7
3000                 .3                          .6
3100                 .3                          .7
3200                0.0                         0.0

PR/PH                          3.459

PR/1700                         .742

PH/1800                         .327

SUM OF THE N-ALKANES 1600-3200 / PR+PH     5.595
```

TABLE 3-a CONT.'D

```
NAME          PERCENT COMPOSITION          PERCENTAGE OF
----              1100-3200                  1600-3200

1100                 3.4
1150                 0.0
1200                 5.9
1253                 3.8
1300                 8.9
1356                 6.4
1400                10.2
1440                 8.5
1500                 9.1
1551                 3.1
1600                 6.0                        14.8
1670                 4.4                        10.7
1700                 5.9                        14.5
1780                 1.2                         3.0
1800                 4.1                        10.0
1851                 1.9                         4.7
1900                 3.6                         8.8
2000                 2.6                         6.4
2100                 2.0                         4.9
2200                 1.8                         4.4
2300                 1.4                         3.4
2400                 1.0                         2.4
2500                  .9                         2.2
2600                 1.0                         2.5
2700                  .7                         1.7
2800                 1.0                         2.5
2900                  .6                         1.4
3000                  .4                          .9
3100                  .3                          .7
3200                 0.0                         0.0

PR/PH                          3.535

PR/1700                         .739

PH/1800                         .303

SUM OF THE N-ALKANES 1600-3200 / PR+PH      5.915
```

TABLE 3-a CONT.'D

```
NAME           PERCENT COMPOSITION           PERCENTAGE OF
----               1100-3200                   1600-3200

1100                  0.0
1150                  0.0
1200                   .6
1253                  1.6
1300                  3.0
1356                  4.6
1400                  7.3
1440                  8.7
1500                  9.9
1551                  3.3
1600                  6.5                        10.7
1670                  5.9                         9.6
1700                  8.2                        13.4
1780                  1.6                         2.6
1800                  6.4                        10.5
1851                  2.6                         4.2
1900                  6.1                         9.9
2000                  4.5                         7.4
2100                  3.7                         6.0
2200                  3.7                         6.0
2300                  2.9                         4.7
2400                  2.6                         4.3
2500                  2.3                         3.7
2600                  2.0                         3.3
2700                  1.7                         2.8
2800                   .6                         1.0
2900                  0.0                         0.0
3000                  0.0                         0.0
3100                  0.0                         0.0
3200                  0.0                         0.0

PR/PH                               3.747

PR/1700                              .716

PH/1800                              .245

SUM OF THE N-ALKANES 1600-3200 / PR+PH      6.857
```

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TABLE 3-a CONT.'D

```
NAME          PERCENT COMPOSITION          PERCENTAGE OF
----               1100-3200                 1600-3200

1100                  0.0
1150                  0.0
1200                  0.0
1253                  0.0
1300                  0.0
1356                  4.9
1400                  9.7
1440                 10.0
1500                 11.7
1551                  4.7
1600                  8.4                      14.2
1670                  6.7                      11.4
1700                  8.8                      15.0
1780                  2.2                       3.7
1800                  6.1                      10.4
1851                  2.8                       4.7
1900                  5.2                       8.8
2000                  3.8                       6.5
2100                  2.9                       5.0
2200                  2.5                       4.3
2300                  2.0                       3.4
2400                  1.4                       2.3
2500                  1.3                       2.1
2600                  1.4                       2.4
2700                  1.0                       1.6
2800                  1.1                       1.9
2900                   .3                        .5
3000                   .5                        .9
3100                   .6                       1.0
3200                  0.0                       0.0

PR/PH                           3.103

PR/1700                          .760

PH/1800                          .353

SUM OF THE N-ALKANES 1600-3200 / PR+PH     5.330
```

TABLE 3-a CONT.'D

```
NAME              PERCENT COMPOSITION          PERCENTAGE OF
----                   1100-3200                   1600-3200

1100                      2.0
1150                      1.1
1200                      7.2
1253                      4.9
1300                      8.7
1356                      6.7
1400                      9.7
1440                      8.7
1500                      8.9
1551                      3.6
1600                      4.5                        11.8
1670                      4.7                        12.3
1700                      5.7                        14.9
1780                      1.9                         4.6
1800                      3.9                        10.2
1851                      1.6                         4.2
1900                      3.1                         8.2
2000                      2.3                         6.1
2100                      1.8                         4.7
2200                      1.6                         4.2
2300                      1.3                         3.4
2400                      1.2                         3.2
2500                       .9                         2.3
2600                       .8                         2.1
2700                       .6                         1.7
2800                       .7                         1.8
2900                       .4                         1.0
3000                       .5                         1.4
3100                       .4                         1.1
3200                       .2                          .6

PR/PH                               2.565

PR/1700                              .827

PH/1800                              .472

SUM OF THE N-ALKANES 1600-3200 / PR+PH       4.587
```

TABLE 3-a CONT.'D

```
NAME          PERCENT COMPOSITION          PERCENTAGE OF
----               1100-3200                 1600-3200

1100                 2.4
1150                 0.0
1200                 6.2
1253                 4.7
1300                 8.3
1356                 6.6
1400                 9.5
1440                 8.8
1500                 9.1
1551                 3.8
1600                 4.6                      11.2
1670                 5.2                      12.7
1700                 6.1                      15.1
1780                 2.1                       5.1
1800                 4.2                      10.4
1851                 1.7                       4.2
1900                 3.3                       8.2
2000                 2.5                       6.1
2100                 1.9                       4.7
2200                 1.7                       4.2
2300                 1.4                       3.4
2400                 1.3                       3.2
2500                  .9                       2.3
2600                  .8                       2.1
2700                  .7                       1.6
2800                  .9                       2.1
2900                  .4                       1.0
3000                  .4                       1.0
3100                  .5                       1.2
3200                 0.0                       0.0

PR/PH                            2.488

PR/1700                           .843

PH/1800                           .491

SUM OF THE N-ALKANES 1600-3200 / PR+PH     4.362
```

TABLE 3-a CONT.'D

```
NAME           PERCENT COMPOSITION            PERCENTAGE OF
----               1100-3200                    1600-3200

1100                  3.0
1150                  0.0
1200                  5.4
1253                  3.6
1300                  8.3
1356                  6.4
1400                 10.3
1440                  8.9
1500                  9.6
1551                  3.4
1600                  6.4                          15.7
1670                  4.6                          11.2
1700                  6.2                          15.1
1780                  1.3                           3.1
1800                  4.1                          10.0
1851                  1.9                           4.6
1900                  3.5                           8.6
2000                  2.6                           6.2
2100                  2.0                           4.8
2200                  1.7                           4.2
2300                  1.4                           3.5
2400                  1.0                           2.5
2500                  1.0                           2.4
2600                  1.1                           2.6
2700                   .7                           1.7
2800                   .6                           1.4
2900                   .5                           1.3
3000                   .3                            .7
3100                   .2                            .6
3200                  0.0                           0.0

PR/PH                            3.613

PR/1700                           .743

PH/1800                           .311

SUM OF THE N-ALKANES 1600-3200 / PR+PH      5.665
```

TABLE 3-a CONT.'D

```
NAME           PERCENT COMPOSITION            PERCENTAGE OF
----               1100-3200                    1600-3200

1100                  2.5
1150                  0.0
1200                  6.2
1253                  5.0
1300                  8.9
1356                  6.9
1400                  9.7
1440                  9.0
1500                  9.2
1551                  3.9
1600                  4.5                          11.7
1670                  5.1                          13.2
1700                  6.1                          15.8
1780                  2.0                           5.3
1800                  4.1                          10.6
1851                  1.7                           4.3
1900                  3.2                           8.3
2000                  2.3                           6.1
2100                  1.8                           4.6
2200                  1.5                           3.9
2300                  1.2                           3.2
2400                  1.2                           3.0
2500                   .8                           2.1
2600                   .7                           1.9
2700                   .6                           1.6
2800                   .8                           2.0
2900                   .3                            .8
3000                   .2                            .6
3100                   .4                           1.0
3200                  0.0                           0.0

PR/PH                             2.515

PR/1700                            .837

PH/1800                            .494

SUM OF THE N-ALKANES 1600-3200 / PR+PH      4.182
```

TABLE 3-a CONT.'D

```
NAME          PERCENT COMPOSITION                PERCENTAGE OF
----               1100-3200                       1600-3200

1100                  0.0
1150                  0.0
1200                  0.0
1253                  2.6
1300                  7.5
1356                  6.6
1400                 10.9
1440                  9.8
1500                 10.5
1551                  3.7
1600                  7.0                            14.5
1670                  5.2                            10.7
1700                  6.9                            14.4
1780                  1.5                             3.1
1800                  4.7                             9.7
1851                  2.1                             4.4
1900                  4.1                             8.4
2000                  3.0                             6.3
2100                  2.4                             5.0
2200                  2.2                             4.5
2300                  1.7                             3.5
2400                  1.2                             2.5
2500                  1.1                             2.3
2600                  1.2                             2.5
2700                   .8                             1.7
2800                  1.3                             2.6
2900                   .7                             1.4
3000                   .7                             1.5
3100                   .5                              .9
3200                  0.0                             0.0

PR/PH                            3.471

PR/1700                           .745

PH/1800                           .317

SUM OF THE N-ALKANES 1600-3200 / PR+PH      5.918
```

TABLE 3-a CONT.'D

```
NAME                PERCENT COMPOSITION          PERCENTAGE OF
----                     1100-3200                 1600-3200

1100                       0.0
1150                       0.0
1200                       0.0
1253                       0.0
1300                       0.0
1356                       4.3
1400                       9.1
1440                      10.0
1500                      11.7
1551                       4.7
1600                       8.3                        13.7
1670                       6.6                        10.9
1700                       8.7                        14.4
1780                       2.0                         3.4
1800                       6.0                         9.9
1851                       2.8                         4.7
1900                       5.2                         8.7
2000                       4.0                         6.6
2100                       3.1                         5.2
2200                       2.8                         4.6
2300                       2.3                         3.8
2400                       1.6                         2.6
2500                       1.4                         2.4
2600                       1.5                         2.4
2700                       1.0                         1.7
2800                       1.1                         1.9
2900                        .7                         1.2
3000                        .4                          .7
3100                        .3                          .5
3200                        .5                          .8

PR/PH                                3.230

PR/1700                               .760

PH/1800                               .342

SUM OF THE N-ALKANES 1600-3200 / PR+PH      5.661
```

TABLE 3-a CONT.'D

```
NAME              PERCENT COMPOSITION          PERCENTAGE OF
----                  1100-3200                  1600-3200

1100                     .7
1150                    0.0
1200                    3.3
1253                    3.1
1300                    6.2
1356                    5.8
1400                    9.0
1440                    8.9
1500                    9.8
1551                    2.1
1600                    5.4                         10.6
1670                    6.3                         12.3
1700                    7.7                         15.0
1780                    2.6                          5.0
1800                    5.4                         10.6
1851                    2.2                          4.3
1900                    4.3                          8.5
2000                    3.2                          6.3
2100                    2.5                          4.9
2200                    2.2                          4.2
2300                    1.8                          3.5
2400                    1.6                          3.2
2500                    1.2                          2.3
2600                    1.1                          2.1
2700                    1.0                          1.9
2800                    1.0                          1.9
2900                     .4                           .8
3000                     .4                           .7
3100                     .5                          1.1
3200                     .3                           .6

PR/PH                             2.457

PR/1700                            .821

PH/1800                            .475

SUM OF THE N-ALKANES 1600-3200 / PR+PH        4.514
```

TABLE 3-a CONT.'D

NAME ----	PERCENT COMPOSITION 1100-3200	PERCENTAGE OF 1600-3200
1100	0.0	
1150	0.0	
1200	3.3	
1253	3.4	
1300	6.8	
1356	6.3	
1400	9.5	
1440	9.2	
1500	9.9	
1551	2.2	
1600	5.3	10.6
1670	6.1	12.4
1700	7.4	15.0
1780	2.5	5.1
1800	5.2	10.5
1851	2.1	4.3
1900	4.2	8.4
2000	3.1	6.3
2100	2.4	4.8
2200	2.1	4.3
2300	1.7	3.5
2400	1.6	3.3
2500	1.1	2.3
2600	1.0	2.1
2700	.9	1.7
2800	1.0	2.1
2900	.4	.7
3000	.4	.7
3100	.6	1.2
3200	.4	.8

PR/PH 2.438

PR/1700 .825

PH/1800 .483

SUM OF THE N-ALKANES 1600-3200 / PR+PH 4.484

TABLE 3-a CONT.'D

Summary for Cruise 1 succession:
B. Aromatic Fraction Distribution for All Samples

Sequence	Sample Number	Treatment (Days)
1	*111217	2, 0
2	112217	2, 0
3	111328	2, 39
4	112328	2, 39
5	121328	2, 39
6	122328	2, 39
7	131328	2, 39
8	132328	2, 39
9	111415	2, 57
10	112415	2, 57
11	121415	2, 57
12	122415	2, 57
13	131415	2, 57
14	132415	2, 57
**15	111507	2, 79
16	112507	2, 79
17	121507	2, 79
18	122507	2, 79
19	131507	2, 79
20	132507	2, 79
21	113507	2, Sterile Weathering Control (79-day)
22	114507	2, Sterile Weathering Control (79-day)

* For all samples the first digit is the cruise, the second is the station, the third is the replicate and other numbers are dates or sample treatments.

** Print out missing.

TABLE 3-a CONT.'D

```
NAME     PERCENT COMPOSITION

 1870              18.5  ✓
 1905               7.8
 1980               6.3  ✓
 2020              21.7  ✓
 2060               9.2
 2130              15.2  ✓
 2170               4.7
 2205               6.8
 2250               0.0
 2430               3.6
 2520               3.7
 2780               2.5
```

TABLE 3-a CONT.'D

NAME	PERCENT COMPOSITION
1870	19.0 ✓
1905	8.3
1980	7.1 ✓
2020	21.8 ✓
2060	9.2
2130	15.0 ✓
2170	4.4
2205	6.5
2250	0.0
2430	2.8
2520	3.6
2780	2.4

TABLE 3-a CONT.'D

NAME	PERCENT COMPOSITION
1870	15.3 ✓
1905	4.5
1980	5.7 ✓
2020	20.7 ✓
2060	9.1
2130	15.5 ✓
2170	5.0
2205	7.5
2250	0.0
2430	3.7
2520	4.3
2780	8.7

TABLE 3-a CONT.'D

NAME	PERCENT COMPOSITION
1870	17.0 ✓
1905	7.0
1980	6.7 ✓
2020	21.2 ✓
2060	9.3
2130	15.4 ✓
2170	4.4
2205	6.7
2250	0.0
2430	3.3
2520	5.5
2780	3.5

TABLE 3-a CONT.'D

NAME	PERCENT COMPOSITION
1870	15.8 ✓
1905	6.6
1980	5.9 ✓
2020	21.2 ✓
2060	9.6
2130	16.3 ✓
2170	5.2
2205	8.1
2250	0.0
2430	2.9
2520	4.3
2780	4.1

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TABLE 3-a CONT.'D

NAME	PERCENT COMPOSITION
1870	18.4 ✓
1905	6.6
1980	4.6 ✓
2020	21.1 ✓
2060	9.1
2130	15.9 ✓
2170	5.3
2205	7.6
2250	0.0
2430	3.7
2520	4.8
2780	2.7

TABLE 3-a CONT.'D

```
NAME    PERCENT COMPOSITION

 1870              17.7 ✓
 1905               0.0
 1980               3.7 ✓
 2020              17.6 ✓
 2060              10.0
 2130              19.0 ✓
 2170               5.6
 2205              12.1
 2250               0.0
 2430               4.4
 2520               4.9
 2780               5.0
```

TABLE 3-a CONT.'D

NAME	PERCENT COMPOSITION
1870	15.9 ✓
1905	7.1
1980	5.6 ✓
2020	21.0 ✓
2060	8.8
2130	14.5 ✓
2170	4.2
2205	6.4
2250	0.0
2430	2.6
2520	3.5
2780	10.3

TABLE 3-a CONT.'D

NAME	PERCENT COMPOSITION
1870	15.2 ✓
1905	6.4
1980	6.0 ✓
2020	20.6 ✓
2060	8.9
2130	14.7 ✓
2170	4.1
2205	6.6
2250	0.0
2430	5.7
2520	3.2
2780	8.5

TABLE 3-a CONT.'D

NAME	PERCENT COMPOSITION
1870	17.3
1905	7.7
1980	6.4
2020	22.3
2060	9.8
2130	16.0
2170	4.8
2205	8.2
2250	0.0
2430	2.6
2520	3.2
2780	1.9

NAME	PERCENT COMPOSITION
1870	20.0
1905	8.3
1980	4.6
2020	21.2
2060	8.0
2130	14.9
2170	3.9
2205	7.9
2250	0.0
2430	4.4
2520	3.5
2780	3.3

TABLE 3-a CONT.'D

TABLE 3-a CONT.'D

NAME	PERCENT COMPOSITION
1870	16.9
1905	6.8
1980	6.1 ✓
2020	21.0 ✓
2060	9.8
2130	16.1 ✓
2170	4.8
2205	7.5
2250	0.0
2430	2.6
2520	4.0
2780	4.3

TABLE 3-a CONT.'D

NAME	PERCENT COMPOSITION
1870	15.9
1905	0.0
1980	3.5
2020	17.9
2060	10.0
2130	18.6
2170	5.8
2205	11.3
2250	0.0
2430	6.0
2520	6.4
2780	4.5

TABLE 3-a CONT.'D

```
NAME     PERCENT COMPOSITION

 1870           13.9
 1905            0.0
 1980            3.5
 2020           19.4
 2060           10.7
 2130           20.0
 2170            5.7
 2205           13.6
 2250            0.0
 2430            4.3
 2520            9.0
 2780            0.0
```

TABLE 3-a CONT.'D

NAME	PERCENT COMPOSITION
1870	17.3
1905	3.9
1980	10.0 ✓
2020	19.2 ✓
2060	10.0
2130	15.9 ✓
2170	5.4
2205	5.9
2250	.7
2430	2.8
2520	4.6
2780	4.4

TABLE 3-a CONT.'D

NAME	PERCENT COMPOSITION
1870	17.0 ✓
1905	6.5
1980	6.0 ✓
2020	20.2 ✓
2060	9.1
2130	15.4 ✓
2170	4.6
2205	7.2
2250	0.0
2430	3.1
2520	4.4
2780	6.4

TABLE 3-a CONT.'D

```
NAME     PERCENT COMPOSITION

 1870                 18.3

 1905                  4.4

 1980                 10.1

 2020                 19.7

 2060                 10.3

 2130                 15.9

 2170                  5.6

 2205                  5.8

 2250                   .8

 2430                  2.7

 2520                  4.3

 2780                  2.1
```

TABLE 3-a CONT.'D

NAME	PERCENT COMPOSITION
1870	16.2 ✓
1905	6.4
1980	6.0 ✓
2020	21.5 ✓
2060	9.6
2130	16.3 ✓
2170	4.7
2205	8.5
2250	0.0
2430	3.9
2520	4.7
2780	2.3

TABLE 3-a CONT.'D

NAME	PERCENT COMPOSITION
1870	17.9 ✓
1905	0.0
1980	3.2 ✓
2020	17.2 ✓
2060	10.3
2130	19.3 ✓
2170	5.6
2205	11.6
2250	0.0
2430	5.7
2520	6.0
2780	3.1

TABLE 3-a CONT.'D

NAME	PERCENT COMPOSITION
1870	17.1 ✓
1905	4.0
1980	9.3 ✓
2020	19.0 ✓
2060	10.6
2130	16.3 ✓
2170	5.9
2205	6.1
2250	0.0
2430	3.3
2520	5.9
2780	2.5

TABLE 3-a CONT.'D

NAME	PERCENT COMPOSITION
1870	17.2 ✓
1905	3.8
1980	9.2 ✓
2020	18.2 ✓
2060	10.1
2130	16.1 ✓
2170	5.6
2205	6.2
2250	0.0
2430	3.2
2520	5.4
2780	5.0

TABLE 3-b

Summary for Cruise 2 succession:
A. Saturated Hydrocarbon Distribution for All Samples

Sequence	Sample Number	Treatment (Days)
1	*211325	1, 0
2	212325	1, 0
3	211415	1, 0
4	212415	1, 21
5	221415	1, 21
6	222415	1, 21
7	231415	1, 21
8	232415	1, 21
9	211507	1, 43
10	212507	1, 43
11	221507	1, 43
12	222507	1, 43
13	231507	1, 43
14	232507	1, 43
15	211520	1, 56
16	212520	1, 56
17	221520	1, 56
18	222520	1, 56
19	231520	1, 56
20	232520	1, 56
21	213520	1, Sterile Weathering Control (56-day)
22	214520	1, Sterile Weathering Control (56-day)

* For all samples the first digit is the cruise, the second is the station, the third is the replicate and other numbers are dates or sample treatments.

TABLE 3-b CONT.'D

```
NAME              PERCENT COMPOSITION          PERCENTAGE OF
----                 1100-3200                   1600-3200

1100                    7.1
1150                    2.5
1200                    9.5
1253                    5.9
1300                    9.6
1356                    5.9
1400                    9.0
1440                    6.6
1500                    7.3
1551                     .2
1600                    7.3                        20.0
1670                    3.6                         9.9
1700                    4.8                        13.1
1780                    1.7                         4.5
1800                    3.3                         9.1
1851                    1.1                         2.9
1900                    2.6                         7.2
2000                    1.9                         5.3
2100                    1.7                         4.6
2200                    1.3                         3.7
2300                    1.2                         3.2
2400                    1.9                         5.1
2500                     .8                         2.2
2600                     .6                         1.8
2700                     .6                         1.6
2800                     .8                         2.1
2900                     .5                         1.2
3000                     .3                          .8
3100                     .4                         1.2
3200                     .2                          .7

PR/PH                             2.173

PR/1700                            .753

PH/1800                            .500

SUM OF THE N-ALKANES 1600-3200 / PR+PH      5.740
```

TABLE 3-b CONT.'D

```
NAME              PERCENT COMPOSITION                 PERCENTAGE OF
----                    1100-3200                       1600-3200

1100                       0.0
1150                       1.3
1200                       9.2
1253                       5.5
1300                      10.0
1356                       6.6
1400                      10.2
1440                       7.6
1500                       8.9
1551                       1.7
1600                       4.9                             12.7
1670                       4.2                             10.9
1700                       5.9                             15.1
1780                       1.6                              4.0
1800                       4.1                             10.6
1851                       1.4                              3.5
1900                       3.3                              8.6
2000                       2.5                              6.4
2100                       2.0                              5.1
2200                       1.7                              4.3
2300                       1.4                              3.6
2400                       1.3                              3.2
2500                        .9                              2.3
2600                        .8                              2.2
2700                        .7                              1.8
2800                        .7                              1.7
2900                        .4                               .9
3000                        .3                               .9
3100                        .5                              1.4
3200                        .4                               .9

PR/PH                                  2.734

PR/1700                                 .719

PH/1800                                 .376

SUM OF THE N-ALKANES 1600-3200 / PR+PH         5.492
```

TABLE 3-b CONT.'D

```
NAME           PERCENT COMPOSITION          PERCENTAGE OF
----               1100-3200                  1600-3200

1100                  6.3
1150                  2.1
1200                  9.8
1253                  5.6
1300                  9.6
1356                  5.6
1400                  8.7
1440                  6.1
1500                  7.7
1551                   .2
1600                  7.5                        19.6
1670                  3.7                         9.7
1700                  5.1                        13.1
1780                  1.8                         4.5
1800                  3.6                         9.4
1851                  1.2                         3.1
1900                  2.9                         7.6
2000                  2.2                         5.7
2100                  1.8                         4.7
2200                  1.5                         4.0
2300                  1.3                         3.5
2400                  1.2                         3.1
2500                   .9                         2.3
2600                   .8                         2.1
2700                   .7                         1.7
2800                   .8                         2.0
2900                   .3                          .9
3000                   .3                          .8
3100                   .6                         1.6
3200                   .3                          .7

PR/PH                              2.132

PR/1700                             .738

PH/1800                             .485

SUM OF THE N-ALKANES 1600-3200 / PR+PH      5.810
```

TABLE 3-b CONT.'D

NAME	PERCENT COMPOSITION 1100-3200	PERCENTAGE OF 1600-3200
1100	4.1	
1150	.9	
1200	8.2	
1253	5.1	
1300	9.3	
1356	6.1	
1400	9.4	
1440	7.1	
1500	8.4	
1551	1.6	
1600	8.1	20.4
1670	4.0	10.1
1700	5.5	13.7
1780	1.4	3.6
1800	3.8	9.5
1851	1.2	3.1
1900	3.1	7.7
2000	2.3	5.8
2100	1.8	4.6
2200	1.5	3.9
2300	1.3	3.3
2400	1.2	2.9
2500	.9	2.2
2600	.8	2.0
2700	.6	1.6
2800	.6	1.5
2900	.4	1.1
3000	.4	1.1
3100	.5	1.2
3200	.3	.7

PR/PH 2.779

PR/1700 .736

PH/1800 .382

SUM OF THE N-ALKANES 1600-3200 / PR+PH 6.070

TABLE 3-b CONT.'D

```
NAME             PERCENT COMPOSITION              PERCENTAGE OF
----                  1100-3200                     1600-3200

1100                     6.4
1150                     0.0
1200                     9.6
1253                     5.4
1300                     9.6
1356                     5.7
1400                     8.9
1440                     6.3
1500                     8.0
1551                      .2
1600                     7.9                          20.0
1670                     3.9                           9.7
1700                     5.3                          13.4
1780                     1.8                           4.6
1800                     3.7                           9.4
1851                     1.2                           2.9
1900                     3.0                           7.5
2000                     2.2                           5.7
2100                     1.9                           4.7
2200                     1.5                           3.9
2300                     1.4                           3.4
2400                     1.2                           3.0
2500                      .9                           2.3
2600                      .8                           2.0
2700                      .6                           1.6
2800                      .9                           2.3
2900                      .4                            .9
3000                      .3                            .7
3100                      .6                           1.4
3200                      .2                            .6

PR/PH                               2.138

PR/1700                              .730

PH/1800                              .485

SUM OF THE N-ALKANES 1600-3200 / PR+PH      5.786
```

TABLE 3-b CONT.'D

```
NAME          PERCENT COMPOSITION            PERCENTAGE OF
----              1100-3200                    1600-3200

1100                 5.9
1150                 1.9
1200                 9.0
1253                 5.1
1300                 9.2
1356                 5.5
1400                 8.7
1440                 6.3
1500                 8.0
1551                  .3
1600                 8.0                          20.1
1670                 4.0                           9.9
1700                 5.4                          13.6
1780                 1.9                           4.7
1800                 3.8                           9.5
1851                 1.2                           2.9
1900                 3.0                           7.6
2000                 2.2                           5.6
2100                 1.9                           4.6
2200                 1.5                           3.8
2300                 1.3                           3.3
2400                 1.2                           3.1
2500                  .9                           2.1
2600                  .8                           1.9
2700                  .6                           1.5
2800                  .7                           1.7
2900                  .4                           1.0
3000                  .3                            .8
3100                  .5                           1.2
3200                  .4                            .9

PR/PH                          2.120

PR/1700                         .732

PH/1800                         .490

SUM OF THE N-ALKANES 1600-3200 / PR+PH    5.643
```

TABLE 3-b CONT.'D

```
NAME              PERCENT COMPOSITION           PERCENTAGE OF
----                   1100-3200                  1600-3200

1100                      4.3
1150                       .8
1200                      8.2
1253                      5.1
1300                      9.4
1356                      6.2
1400                      9.6
1440                      7.3
1500                      8.6
1551                      1.7
1600                      4.9                          12.6
1670                      4.2                          10.7
1700                      5.8                          14.9
1780                      1.5                           3.9
1800                      4.0                          10.4
1851                      1.3                           3.4
1900                      3.3                           8.5
2000                      2.5                           6.3
2100                      2.0                           5.1
2200                      1.7                           4.3
2300                      1.4                           3.7
2400                      1.3                           3.3
2500                       .9                           2.4
2600                       .9                           2.2
2700                       .7                           1.8
2800                       .8                           2.0
2900                       .5                           1.4
3000                       .4                            .9
3100                       .5                           1.3
3200                       .4                           1.0

PR/PH                                 2.776

PR/1700                                .718

PH/1800                                .372

SUM OF THE N-ALKANES 1600-3200 / PR+PH      5.624
```

TABLE 3-b CONT.'D

```
NAME              PERCENT COMPOSITION              PERCENTAGE OF
----                   1100-3200                     1600-3200

1100                      4.9
1150                      1.0
1200                      9.1
1253                      5.4
1300                      9.8
1356                      6.2
1400                      9.6
1440                      7.3
1500                      8.4
1551                      1.6
1600                      4.7                          12.7
1670                      4.0                          11.0
1700                      5.5                          15.0
1780                      1.4                           3.9
1800                      3.8                          10.4
1851                      1.3                           3.5
1900                      3.1                           8.5
2000                      2.3                           6.4
2100                      1.9                           5.1
2200                      1.6                           4.2
2300                      1.3                           3.7
2400                      1.2                           3.2
2500                       .9                           2.4
2600                       .8                           2.1
2700                       .6                           1.8
2800                       .6                           1.5
2900                       .4                           1.2
3000                       .4                           1.1
3100                       .5                           1.5
3200                       .3                            .8

PR/PH                                 2.805

PR/1700                                .737

PH/1800                                .377

SUM OF THE N-ALKANES 1600-3200 / PR+PH     5.452
```

TABLE 3-b CONT.'D

```
NAME          PERCENT COMPOSITION          PERCENTAGE OF
----               1100-3200                  1600-3200

1100                 5.5
1150                 2.3
1200                 9.7
1253                 6.0
1300                10.1
1356                 6.0
1400                 9.2
1440                 6.8
1500                 7.5
1551                 0.0
1600                 7.6                        20.5
1670                 3.8                        10.2
1700                 5.0                        13.4
1780                 1.7                         4.7
1800                 3.5                         9.4
1851                 1.1                         3.0
1900                 2.7                         7.4
2000                 2.0                         5.5
2100                 1.7                         4.5
2200                 1.4                         3.8
2300                 1.2                         3.3
2400                 1.0                         2.8
2500                  .8                         2.2
2600                  .7                         1.8
2700                  .5                         1.4
2800                  .8                         2.3
2900                  .4                         1.2
3000                  .2                          .6
3100                  .4                          .9
3200                  .4                         1.1

PR/PH                           2.168

PR/1700                          .763

PH/1800                          .504

SUM OF THE N-ALKANES 1600-3200 / PR+PH    5.488
```

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TABLE 3-b CONT.'D

```
NAME           PERCENT COMPOSITION        PERCENTAGE OF
----                1100-3200               1600-3200

1100                  6.4
1150                  2.3
1200                  9.6
1253                  5.6
1300                  9.7
1356                  5.8
1400                  8.9
1440                  6.6
1500                  7.8
1551                   .2
1600                  7.7                    20.6
1670                  3.8                    10.2
1700                  5.1                    13.6
1780                  1.8                     4.7
1800                  3.5                     9.5
1851                  1.1                     3.0
1900                  2.8                     7.5
2000                  2.1                     5.5
2100                  1.7                     4.5
2200                  1.4                     3.8
2300                  1.2                     3.2
2400                  1.0                     2.8
2500                   .8                     2.1
2600                   .7                     1.9
2700                   .6                     1.5
2800                   .7                     2.0
2900                   .4                     1.0
3000                   .3                      .7
3100                   .4                     1.2
3200                   .3                      .7

PR/PH                             2.178

PR/1700                            .751

PH/1800                            .495

SUM OF THE N-ALKANES 1600-3200 / PR+PH    5.492
```

TABLE 3-b CONT.'D

```
NAME             PERCENT COMPOSITION          PERCENTAGE OF
----                 1100-3200                  1600-3200

1100                    .9
1150                    .4
1200                   4.2
1253                   4.1
1300                   8.0
1356                   6.2
1400                   9.9
1440                   7.8
1500                   9.4
1551                   1.9
1600                   9.5                        20.1
1670                   4.7                         9.9
1700                   6.3                        13.4
1780                   1.7                         3.7
1800                   4.5                         9.4
1851                   1.4                         3.0
1900                   3.6                         7.7
2000                   2.7                         5.8
2100                   2.2                         4.7
2200                   1.9                         3.9
2300                   1.6                         3.4
2400                   1.4                         3.0
2500                   1.0                         2.2
2600                    .9                         2.0
2700                    .8                         1.6
2800                    .7                         1.6
2900                    .5                         1.1
3000                    .6                         1.3
3100                    .6                         1.3
3200                    .4                          .9

PR/PH                           2.679

PR/1700                          .734

PH/1800                          .390

SUM OF THE N-ALKANES 1600-3200 / PR+PH       6.166
```

TABLE 3-b CONT.'D

```
NAME            PERCENT COMPOSITION                 PERCENTAGE OF
----                 1100-3200                        1600-3200

1100                    .8
1150                    .5
1200                   3.9
1253                   3.8
1300                   7.5
1356                   6.0
1400                   9.6
1440                   7.6
1500                   9.3
1551                   3.2
1600                  10.1                             21.0
1670                   4.6                              9.5
1700                   6.3                             13.1
1780                   1.7                              3.5
1800                   4.4                              9.3
1851                   1.4                              3.0
1900                   3.7                              7.7
2000                   2.8                              5.8
2100                   2.2                              4.7
2200                   1.9                              3.9
2300                   1.6                              3.4
2400                   1.5                              3.0
2500                   1.1                              2.2
2600                   1.0                              2.0
2700                    .8                              1.6
2800                    .8                              1.6
2900                    .6                              1.2
3000                    .6                              1.3
3100                    .6                              1.2
3200                    .5                              1.0

PR/PH                           2.708

PR/1700                          .723

PH/1800                          .379

SUM OF THE N-ALKANES 1600-3200 / PR+PH      6.453
```

TABLE 3-b CONT.'D

NAME	PERCENT COMPOSITION 1100-3200	PERCENTAGE OF 1600-3200
1100	3.9	
1150	1.1	
1200	7.9	
1253	5.0	
1300	9.1	
1356	6.2	
1400	9.8	
1440	7.5	
1500	8.8	
1551	1.7	
1600	4.9	12.6
1670	4.2	10.8
1700	5.8	14.8
1780	1.5	3.9
1800	4.1	10.4
1851	1.4	3.5
1900	3.3	8.5
2000	2.5	6.4
2100	2.0	5.1
2200	1.7	4.3
2300	1.5	3.7
2400	1.3	3.3
2500	.9	2.4
2600	.9	2.2
2700	.7	1.8
2800	.7	1.8
2900	.4	1.0
3000	.4	1.0
3100	.5	1.4
3200	.4	.9

PR/PH 2.775

PR/1700 .732

PH/1800 .376

SUM OF THE N-ALKANES 1600-3200 / PR+PH 5.551

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TABLE 3-b CONT.'D

```
NAME                 PERCENT COMPOSITION              PERCENTAGE OF
----                      1100-3200                     1600-3200

1100                         5.0
1150                         1.1
1200                         9.3
1253                         5.7
1300                        10.3
1356                         6.6
1400                         1.0
1440                         7.7
1500                         9.0
1551                         1.7
1600                         8.7                          20.4
1670                         4.3                          10.1
1700                         5.9                          13.8
1780                         1.5                           3.6
1800                         4.1                           9.6
1851                         1.3                           3.2
1900                         3.3                           7.8
2000                         2.5                           5.8
2100                         2.0                           4.6
2200                         1.6                           3.9
2300                         1.4                           3.4
2400                         1.3                           3.0
2500                          .9                           2.2
2600                          .8                           2.0
2700                          .7                           1.6
2800                          .7                           1.5
2900                          .3                            .7
3000                          .3                            .7
3100                          .6                           1.4
3200                          .3                            .8

PR/PH                                   2.782

PR/1700                                  .735

PH/1800                                  .379

SUM OF THE N-ALKANES 1600-3200 / PR+PH        6.050
```

TABLE 3-b CONT.'D

```
NAME            PERCENT COMPOSITION           PERCENTAGE OF
----                1100-3200                   1600-3200

1100                   5.1
1150                   1.8
1200                   8.9
1253                   5.4
1300                   9.4
1356                   5.7
1400                   8.8
1440                   6.3
1500                   8.0
1551                    .2
1600                   7.9                     19.7
1670                   3.9                      9.6
1700                   5.3                     13.1
1780                   1.8                      4.5
1800                   3.8                      9.3
1851                   1.2                      2.9
1900                   3.0                      7.5
2000                   2.3                      5.6
2100                   1.9                      4.7
2200                   1.6                      3.9
2300                   1.4                      3.4
2400                   1.3                      3.2
2500                    .9                      2.2
2600                    .8                      2.0
2700                    .7                      1.6
2800                    .9                      2.1
2900                    .5                      1.2
3000                    .4                       .9
3100                    .7                      1.6
3200                    .3                       .8

PR/PH                            2.119

PR/1700                           .734

PH/1800                           .488

SUM OF THE N-ALKANES 1600-3200 / PR+PH     5.843
```

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TABLE 3-b CONT.'D

```
NAME           PERCENT COMPOSITION        PERCENTAGE OF
----               1100-3200                1600-3200

1100                  4.9
1150                  0.0
1200                  8.8
1253                  5.3
1300                  9.3
1356                  5.7
1400                  8.9
1440                  6.4
1500                  8.2
1551                   .3
1600                  8.4                     19.8
1670                  4.2                      9.9
1700                  5.6                     13.4
1780                  2.0                      4.7
1800                  4.0                      9.5
1851                  1.3                      3.0
1900                  3.2                      7.6
2000                  2.4                      5.7
2100                  2.0                      4.7
2200                  1.7                      3.9
2300                  1.4                      3.4
2400                  1.3                      3.1
2500                   .9                      2.2
2600                   .8                      2.0
2700                   .7                      1.6
2800                   .7                      1.7
2900                   .4                       .9
3000                   .3                       .8
3100                   .5                      1.3
3200                   .3                       .7

PR/PH                             2.117

PR/1700                            .740

PH/1800                            .491

SUM OF THE N-ALKANES 1600-3200 / PR+PH     5.655
```

TABLE 3-b CONT.'D

```
NAME              PERCENT COMPOSITION             PERCENTAGE OF
----                   1100-3200                    1600-3200

1100                     4.3
1150                     1.5
1200                     8.1
1253                     4.8
1300                     8.8
1356                     5.8
1400                     8.8
1440                     6.7
1500                     7.9
1551                     2.7
1600                     8.5                          20.9
1670                     3.8                           9.4
1700                     5.3                          13.1
1780                     1.7                           4.2
1800                     3.7                           9.2
1851                     1.2                           3.0
1900                     3.1                           7.6
2000                     2.3                           5.7
2100                     1.9                           4.6
2200                     1.6                           3.9
2300                     1.4                           3.4
2400                     1.2                           3.1
2500                      .9                           2.3
2600                      .8                           2.0
2700                      .7                           1.8
2800                      .6                           1.6
2900                      .5                           1.2
3000                      .3                            .9
3100                      .4                           1.1
3200                      .4                           1.0

PR/PH                              2.253

PR/1700                             .723

PH/1800                             .457

SUM OF THE N-ALKANES 1600-3200 / PR+PH     6.122
```

TABLE 3-b CONT.'D

NAME	PERCENT COMPOSITION 1100-3200	PERCENTAGE OF 1600-3200
1100	5.4	
1150	1.7	
1200	8.8	
1253	5.2	
1300	9.2	
1356	5.5	
1400	8.7	
1440	6.2	
1500	8.0	
1551	.2	
1600	8.2	19.9
1670	4.0	9.8
1700	5.5	13.4
1780	1.9	4.6
1800	3.9	9.5
1851	1.2	2.9
1900	3.1	7.6
2000	2.3	5.7
2100	1.9	4.7
2200	1.6	3.9
2300	1.4	3.3
2400	1.2	3.0
2500	.9	2.2
2600	.8	1.9
2700	.7	1.6
2800	.8	1.9
2900	.5	1.1
3000	.4	1.0
3100	.5	1.2
3200	.3	.7

PR/PH 2.121

PR/1700 .728

PH/1800 .484

SUM OF THE N-ALKANES 1600-3200 / PR+PH 5.735

TABLE 3-b CONT.'D

NAME	PERCENT COMPOSITION 1100-3200	PERCENTAGE OF 1600-3200
1100	4.3	
1150	1.5	
1200	8.3	
1253	5.0	
1300	9.2	
1356	6.1	
1400	9.4	
1440	7.1	
1500	8.2	
1551	1.5	
1600	7.9	20.1
1670	3.9	10.0
1700	5.3	13.5
1780	1.4	3.6
1800	3.8	9.5
1851	1.3	3.2
1900	3.1	7.8
2000	2.3	5.8
2100	1.8	4.7
2200	1.5	3.9
2300	1.3	3.4
2400	1.2	3.0
2500	.9	2.2
2600	.8	2.0
2700	.7	1.7
2800	.7	1.9
2900	.4	.9
3000	.3	.8
3100	.5	1.2
3200	.4	.9

PR/PH	2.746
PR/1700	.736
PH/1800	.380
SUM OF THE N-ALKANES 1600-3200 / PR+PH	6.131

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TABLE 3-b CONT.'D

```
NAME         PERCENT COMPOSITION            PERCENTAGE OF
----              1100-3200                   1600-3200

1100                 4.5
1150                  .9
1200                 8.5
1253                 5.1
1300                 9.2
1356                 6.0
1400                 9.3
1440                 7.1
1500                 8.2
1551                 1.6
1600                 8.1                        20.5
1670                 4.0                        10.2
1700                 5.4                        13.6
1780                 1.5                         3.7
1800                 3.8                         9.5
1851                 1.2                         3.1
1900                 3.0                         7.7
2000                 2.3                         5.8
2100                 1.8                         4.6
2200                 1.5                         3.8
2300                 1.3                         3.3
2400                 1.2                         2.9
2500                  .8                         2.1
2600                  .8                         1.9
2700                  .6                         1.6
2800                  .6                         1.5
2900                  .4                         1.1
3000                  .4                         1.1
3100                  .5                         1.2
3200                  .3                          .9

PR/PH                          2.778

PR/1700                         .745

PH/1800                         .385

SUM OF THE N-ALKANES 1600-3200 / PR+PH     6.016
```

TABLE 3-b CONT.'D

```
NAME            PERCENT COMPOSITION          PERCENTAGE OF
----                1100-3200                  1600-3200

1100                    .7
1150                   0.0
1200                   2.0
1253                   1.6
1300                   3.2
1356                   3.1
1400                   6.0
1440                   6.1
1500                   8.4
1551                   3.4
1600                   6.1                         9.3
1670                   6.6                        10.0
1700                   8.9                        13.6
1780                   2.6                         3.9
1800                   6.9                        10.6
1851                   2.4                         3.7
1900                   6.0                         9.1
2000                   4.6                         7.0
2100                   3.7                         5.7
2200                   3.2                         4.8
2300                   2.8                         4.2
2400                   2.4                         3.7
2500                   1.8                         2.7
2600                   1.7                         2.5
2700                   1.4                         2.1
2800                   1.4                         2.1
2900                    .7                         1.1
3000                    .7                         1.1
3100                   1.1                         1.6
3200                    .7                         1.1

PR/PH                            2.550

PR/1700                           .737

PH/1800                           .373

SUM OF THE N-ALKANES 1600-3200 / PR+PH     5.887
```

TABLE 3-b CONT.'D

```
NAME          PERCENT COMPOSITION          PERCENTAGE OF
----              1100-3200                  1600-3200

1100                  .5
1150                 0.0
1200                 2.4
1253                 1.9
1300                 3.9
1356                 3.6
1400                 6.6
1440                 6.4
1500                 8.7
1551                 3.5
1600                 6.1                          9.8
1670                 6.4                         10.2
1700                 8.7                         14.0
1780                 2.5                          3.9
1800                 6.6                         10.6
1851                 2.3                          3.7
1900                 5.6                          9.0
2000                 4.3                          6.9
2100                 3.5                          5.6
2200                 3.0                          4.8
2300                 2.6                          4.1
2400                 2.3                          3.6
2500                 1.7                          2.6
2600                 1.5                          2.5
2700                 1.3                          2.0
2800                 1.3                          2.1
2900                  .7                          1.1
3000                  .7                          1.0
3100                 1.0                          1.6
3200                  .7                          1.1

PR/PH                            2.601

PR/1700                           .734

PH/1800                           .371

SUM OF THE N-ALKANES 1600-3200 / PR+PH    5.798
```

TABLE 3-b CONT.'D

Summary for Cruise 2 succession:
B. Aromatic Fraction Distribution for All Samples

Sequence	Sample Number	Treatment (Days)
1	*211325	2, 0
**2	212325	2, 0
3	211415	2, 21
4	212415	2, 21
5	221415	2, 21
6	222415	2, 21
7	231415	2, 21
8	232415	2, 21
9	211507	2, 43
10	212507	2, 43
11	221507	2, 43
12	222507	2, 43
13	231507	2, 43
14	232507	2, 43
15	211520	2, 56
16	212520	2, 56
17	221520	2, 56
18	222520	2, 56
19	231520	2, 56
20	232520	2, 56
21	213520	2, Sterile Weathering Control (56-day)
22	214520	2, Sterile Weathering Control (56-day)

* For all samples the first digit is the cruise, the second is the station, the third is the replicate and other numbers are dates or sample treatments.

** Print out missing.

TABLE 3-b CONT.'D

NAME	PERCENT COMPOSITION
1870	20.7
1905	12.1
1980	11.0
2020	19.0
2060	7.1
2130	8.4
2170	4.6
2205	7.1
2250	2.1
2430	1.8
2520	1.6
2780	4.4

TABLE 3-b CONT.'D

NAME	PERCENT COMPOSITION
1870	19.6 ✓
1905	12.5
1980	6.8 ✓
2020	16.8 ✓
2060	6.8
2130	11.3 ✓
2170	3.7
2205	6.0
2250	1.9
2430	2.8
2520	2.5
2780	9.2

TABLE 3-b CONT.'D

NAME	PERCENT COMPOSITION
1870	25.1
1905	12.1
1980	6.0
2020	22.2
2060	7.3
2130	12.6
2170	2.5
2205	4.1
2250	0.0
2430	3.4
2520	2.8
2780	1.7

TABLE 3-b CONT.'D

NAME	PERCENT COMPOSITION
1870	23.9
1905	14.7
1980	7.1
2020	20.5
2060	8.0
2130	9.4
2170	3.6
2205	4.7
2250	1.2
2430	2.9
2520	2.8
2780	1.2

TABLE 3-b CONT.'D

NAME	PERCENT COMPOSITION
1870	20.6
1905	12.5
1980	11.4
2020	19.9
2060	7.4
2130	8.9
2170	4.8
2205	7.4
2250	2.3
2430	1.9
2520	1.8
2780	1.1

TABLE 3-b CONT.'D

NAME	PERCENT COMPOSITION
1870	24.8 ✓
1905	0.0
1980	9.1 ✓
2020	23.6 ✓
2060	10.2
2130	11.1 ✓
2170	4.0
2205	6.2
2250	0.0
2430	2.9
2520	3.5
2780	4.7

TABLE 3-b CONT.'D

NAME	PERCENT COMPOSITION
1870	0.0 ✓
1905	32.8
1980	0.0 ✓
2020	0.0 ✓
2060	10.7
2130	29.9 ✓
2170	11.7
2205	8.5
2250	0.0
2430	2.5
2520	1.6
2780	2.3

TABLE 3-b CONT.'D

NAME	PERCENT COMPOSITION
1870	17.3
1905	11.0
1980	3.7
2020	25.2
2060	8.8
2130	15.8
2170	3.8
2205	5.4
2250	0.0
2430	3.9
2520	5.2
2780	0.0

TABLE 3-b CONT.'D

NAME	PERCENT COMPOSITION
1870	20.4
1905	11.8
1980	11.0
2020	19.2
2060	7.2
2130	8.7
2170	4.8
2205	7.5
2250	2.3
2430	1.3
2520	1.8
2780	4.1

TABLE 3-b CONT.'D

NAME	PERCENT COMPOSITION
1870	19.0 ✓
1905	10.8
1980	7.7 ✓
2020	20.7 ✓
2060	8.9
2130	13.7 ✓
2170	4.2
2205	5.5
2250	1.4
2430	3.7
2520	3.2
2780	1.3

TABLE 3-b CONT.'D

NAME	PERCENT COMPOSITION
1870	19.5
1905	6.5
1980	7.7
2020	21.2
2060	9.3
2130	14.5
2170	4.6
2205	5.9
2250	1.5
2430	4.1
2520	3.7
2780	1.5

RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE 231507-2

TABLE 3-b CONT.'D

NAME	PERCENT COMPOSITION
1870	19.2
1905	11.3
1980	3.3
2020	25.5
2060	8.5
2130	15.6
2170	4.4
2205	5.2
2250	0.0
2430	4.6
2520	1.1
2780	1.4

TABLE 3-b CONT.'D

NAME	PERCENT COMPOSITION
1870	17.9
1905	10.5
1980	3.3
2020	24.8
2060	8.6
2130	15.4
2170	3.8
2205	5.3
2250	0.0
2430	4.6
2520	3.3
2780	2.6

TABLE 3-b CONT.'D

NAME	PERCENT COMPOSITION
1870	25.8
1905	16.3
1980	7.2
2020	17.7
2060	6.9
2130	10.4
2170	3.5
2205	5.2
2250	1.7
2430	2.3
2520	2.3
2780	.7

TABLE 3-b CONT.'D

NAME	PERCENT COMPOSITION
1870	18.9
1905	8.8
1980	3.4
2020	26.8
2060	8.4
2130	15.1
2170	3.4
2205	5.4
2250	0.0
2430	4.6
2520	3.8
2780	1.3

TABLE 3-b CONT.'D

NAME	PERCENT COMPOSITION
1870	21.6
1905	13.0
1980	7.4
2020	20.4
2060	8.4
2130	12.5
2170	3.8
2205	4.7
2250	1.2
2430	3.0
2520	2.8
2780	1.2

TABLE 3-b CONT.'D

NAME	PERCENT COMPOSITION
1870	21.4
1905	13.3
1980	6.9
2020	20.3
2060	8.0
2130	12.0
2170	3.7
2205	4.9
2250	1.2
2430	3.3
2520	3.0
2780	2.0

TABLE 3-b CONT.'D

NAME	PERCENT COMPOSITION
1870	21.5
1905	12.0
1980	6.5
2020	18.4
2060	7.5
2130	8.9
2170	3.5
2205	4.8
2250	0.0
2430	2.9
2520	2.8
2780	11.0

TABLE 3-b CONT.'D

NAME	PERCENT COMPOSITION
1870	23.6
1905	0.0
1980	9.2
2020	23.9
2060	10.6
2130	12.1
2170	4.3
2205	6.4
2250	0.0
2430	3.3
2520	4.2
2780	2.6

TABLE 3.b CONT.'D

NAME	PERCENT COMPOSITION
1870	16.8
1905	4.1
1980	5.6
2020	18.7
2060	10.5
2130	16.3
2170	5.4
2205	7.1
2250	0.0
2430	6.4
2520	6.1
2780	2.9

TABLE 3-b CONT.'D

NAME	PERCENT COMPOSITION
1870	13.1
1905	3.3
1980	4.4
2020	14.1
2060	7.5
2130	11.3
2170	3.4
2205	5.0
2250	0.0
2430	2.9
2520	4.4
2780	30.5

TABLE 3-c

Summary for Cruise 3 succession:
A. Saturated Hydrocarbon Distribution for All Samples

Sequence	Sample Number	Treatment (Days)
1	*311427	1, 0
2	312427	1, 0
3	311507	1, 10
4	312507	1, 10
5	321507	1, 10
6	322507	1, 10
7	331507	1, 10
8	332507	1, 10
9	311520	1, 23
10	312520	1, 23
11	321520	1, 23
12	322520	1, 23
13	331520	1, 23
14	332520	1, 23
15	311603	1, 37
16	312603	1, 37
17	321603	1, 37
18	322603	1, 37
19	331603	1, 37
20	332603	1, 37

* For all samples the first digit is the cruise, the second is the station, the third is the replicate and other numbers are dates or sample treatments.

TABLE 3.c CONT.'D

```
NAME             PERCENT COMPOSITION          PERCENTAGE OF
----                 1100-3200                  1600-3200

1100                    .5
1150                    .8
1200                   4.8
1253                   4.2
1300                   8.2
1356                   6.2
1400                   9.9
1440                   7.6
1500                   9.1
1551                   3.2
1600                   9.7                          21.4
1670                   4.4                           9.6
1700                   6.1                          13.4
1780                   1.6                           3.5
1800                   4.3                           9.4
1851                   1.4                           3.1
1900                   3.5                           7.7
2000                   2.6                           5.7
2100                   2.1                           4.6
2200                   1.8                           3.9
2300                   1.5                           3.3
2400                   1.3                           2.9
2500                   1.0                           2.2
2600                    .9                           2.0
2700                    .7                           1.6
2800                    .7                           1.5
2900                    .5                           1.1
3000                    .5                           1.2
3100                    .6                           1.2
3200                    .4                            .8

PR/PH                             2.715

PR/1700                            .716

PH/1800                            .378

SUM OF THE N-ALKANES 1600-3200 / PR+PH      6.374
```

TABLE 3-c CONT.'D

```
NAME            PERCENT COMPOSITION           PERCENTAGE OF
----                 1100-3200                  1600-3200

1100                   1.0
1150                    .8
1200                   5.0
1253                   4.2
1300                   8.3
1356                   6.2
1400                   9.9
1440                   7.5
1500                   9.1
1551                   3.1
1600                   9.7                         21.7
1670                   4.4                          9.7
1700                   6.1                         13.6
1780                   1.6                          3.6
1800                   4.3                          9.6
1851                   1.4                          3.1
1900                   3.6                          8.0
2000                   2.7                          6.0
2100                   2.2                          4.8
2200                   1.8                          4.1
2300                   1.6                          3.5
2400                   1.4                          3.2
2500                   1.0                          2.3
2600                   1.0                          2.1
2700                    .8                          1.7
2800                    .7                          1.6
2900                    .5                          1.2
3000                   0.0                          0.0
3100                   0.0                          0.0
3200                   0.0                          0.0

PR/PH                            2.725

PR/1700                           .715

PH/1800                           .374

SUM OF THE N-ALKANES 1600-3200 / PR+PH    6.275
```

TABLE 3-c CONT.'D

```
NAME          PERCENT COMPOSITION             PERCENTAGE OF
----               1100-3200                     1600-3200

1100                  4.8
1150                  1.2
1200                  8.6
1253                  5.2
1300                  9.2
1356                  6.0
1400                  9.1
1440                  6.8
1500                  8.0
1551                  1.5
1600                  7.9                          20.0
1670                  4.0                          10.1
1700                  5.4                          13.5
1780                  1.5                           3.8
1800                  3.8                           9.6
1851                  1.3                           3.2
1900                  3.1                           7.8
2000                  2.3                           5.8
2100                  1.8                           4.6
2200                  1.5                           3.9
2300                  1.3                           3.4
2400                  1.2                           3.0
2500                   .9                           2.3
2600                   .8                           2.1
2700                   .7                           1.7
2800                   .6                           1.6
2900                   .4                            .9
3000                   .3                            .9
3100                   .5                           1.2
3200                   .4                            .9

PR/PH                           2.660

PR/1700                          .748

PH/1800                          .396

SUM OF THE N-ALKANES 1600-3200 / PR+PH     5.976
```

TABLE 3-c CONT.'D

NAME	PERCENT COMPOSITION 1100-3200	PERCENTAGE OF 1600-3200
1100	4.4	
1150	1.2	
1200	8.2	
1253	4.8	
1300	8.7	
1356	5.8	
1400	9.0	
1440	6.9	
1500	8.1	
1551	1.5	
1600	8.3	20.1
1670	4.2	10.2
1700	5.6	13.5
1780	1.6	3.9
1800	4.0	9.7
1851	1.3	3.2
1900	3.2	7.8
2000	2.4	5.9
2100	1.9	4.6
2200	1.6	3.9
2300	1.4	3.3
2400	1.2	2.9
2500	.9	2.1
2600	.8	1.9
2700	.6	1.5
2800	.6	1.5
2900	.4	1.0
3000	.4	1.0
3100	.5	1.1
3200	.4	.9

PR/PH	2.639
PR/1700	.751
PH/1800	.398
SUM OF THE N-ALKANES 1600-3200 / PR+PH	5.910

TABLE 3-c CONT.'D

```
NAME            PERCENT COMPOSITION           PERCENTAGE OF
----                1100-3200                  1600-3200

1100                   0.0
1150                   0.0
1200                   0.0
1253                   7.2
1300                  12.2
1356                   7.2
1400                  11.1
1440                   8.3
1500                   8.1
1551                    .2
1600                   9.3                       20.3
1670                   4.7                       10.3
1700                   6.1                       13.4
1780                   2.1                        4.7
1800                   4.3                        9.4
1851                   1.4                        3.1
1900                   3.4                        7.4
2000                   2.5                        5.5
2100                   2.1                        4.5
2200                   1.7                        3.8
2300                   1.5                        3.3
2400                   1.3                        2.9
2500                   1.2                        2.6
2600                   1.0                        2.1
2700                    .7                        1.6
2800                    .8                        1.8
2900                    .4                         .9
3000                    .4                         .8
3100                    .5                        1.1
3200                    .3                         .7

PR/PH                              2.192

PR/1700                             .768

PH/1800                             .501

SUM OF THE N-ALKANES 1600-3200 / PR+PH    5.480
```

TABLE 3-c CONT.'D

```
NAME         PERCENT COMPOSITION           PERCENTAGE OF
----             1100-3200                   1600-3200

1100                4.4
1150                1.3
1200                7.1
1253                4.4
1300                7.8
1356                5.1
1400                8.2
1440                6.3
1500                8.1
1551                2.6
1600                8.7                       19.4
1670                4.5                       10.0
1700                6.0                       13.5
1780                2.1                        4.7
1800                4.3                        9.7
1851                1.4                        3.1
1900                3.5                        7.8
2000                2.6                        5.8
2100                2.1                        4.8
2200                1.7                        3.9
2300                1.5                        3.4
2400                1.4                        3.1
2500                1.0                        2.2
2600                 .9                        2.0
2700                 .7                        1.6
2800                 .8                        1.8
2900                 .4                         .9
3000                 .3                         .7
3100                 .5                        1.1
3200                 .3                         .6

PR/PH                          2.120

PR/1700                         .746

PH/1800                         .489

SUM OF THE N-ALKANES 1600-3200 / PR+PH    5.554
```

TABLE 3-c CONT.'D

NAME ----	PERCENT COMPOSITION 1100-3200	PERCENTAGE OF 1600-3200
1100	1.4	
1150	1.0	
1200	5.5	
1253	4.8	
1300	8.5	
1356	6.0	
1400	9.8	
1440	7.7	
1500	9.0	
1551	.3	
1600	9.4	20.3
1670	4.8	10.4
1700	6.3	13.6
1780	2.2	4.8
1800	4.4	9.6
1851	1.4	3.0
1900	3.5	7.6
2000	2.6	5.6
2100	2.1	4.6
2200	1.8	3.8
2300	1.5	3.3
2400	1.3	2.8
2500	1.0	2.1
2600	.9	1.9
2700	.7	1.4
2800	.7	1.6
2900	.5	1.1
3000	.3	.7
3100	.5	1.1
3200	.4	.8

PR/PH 2.178

PR/1700 .764

PH/1800 .496

SUM OF THE N-ALKANES 1600-3200 / PR+PH 5.405

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TABLE 3-c CONT.'D

```
NAME            PERCENT COMPOSITION         PERCENTAGE OF
----                1100-3200                 1600-3200

1100                   1.2
1150                    .8
1200                   3.9
1253                   3.1
1300                   5.5
1356                  38.8
1400                   6.3
1440                   4.9
1500                   5.8
1551                    .2
1600                   6.0                      20.2
1670                   3.1                      10.4
1700                   4.0                      13.5
1780                   1.4                       4.8
1800                   2.8                       9.5
1851                    .9                       3.0
1900                   2.2                       7.5
2000                   1.6                       5.5
2100                   1.3                       4.5
2200                   1.1                       3.7
2300                   1.0                       3.3
2400                    .8                       2.8
2500                    .6                       2.1
2600                    .5                       1.8
2700                    .4                       1.4
2800                    .6                       2.1
2900                    .3                        .9
3000                    .3                       1.0
3100                    .3                        .9
3200                    .3                       1.0

PR/PH                          2.179

PR/1700                         .769

PH/1800                         .502

SUM OF THE N-ALKANES 1600-3200 / PR+PH    5.409
```

TABLE 3-c CONT.'D

```
NAME        PERCENT COMPOSITION          PERCENTAGE OF
----             1100-3200                  1600-3200

1100               5.9
1150               2.2
1200               9.2
1253               5.6
1300               9.4
1356               5.8
1400               8.9
1440               6.8
1500               8.0
1551                .2
1600               7.8                        20.6
1670               4.0                        10.5
1700               5.2                        13.6
1780               1.8                         4.8
1800               3.6                         9.5
1851               1.2                         3.0
1900               2.9                         7.5
2000               2.1                         5.5
2100               1.7                         4.5
2200               1.4                         3.7
2300               1.2                         3.2
2400               1.1                         2.8
2500                .8                         2.0
2600                .7                         1.8
2700                .6                         1.5
2800                .7                         1.8
2900                .4                         1.0
3000                .3                          .8
3100                .4                         1.0
3200                .2                          .6

PR/PH                         2.186

PR/1700                        .770

PH/1800                        .503

SUM OF THE N-ALKANES 1600-3200 / PR+PH        5.351
```

TABLE 3-c CONT.'D

```
NAME            PERCENT COMPOSITION              PERCENTAGE OF
----                1100-3200                      1600-3200

1100                   5.8
1150                   2.3
1200                   9.3
1253                   5.7
1300                   9.6
1356                   5.9
1400                   9.1
1440                   6.8
1500                   7.8
1551                    .2
1600                   7.8                            20.8
1670                   3.8                            10.3
1700                   5.1                            13.6
1780                   1.8                             4.7
1800                   3.5                             9.4
1851                   1.1                             3.0
1900                   2.8                             7.5
2000                   2.1                             5.5
2100                   1.7                             4.5
2200                   1.4                             3.8
2300                   1.2                             3.3
2400                   1.1                             2.9
2500                    .8                             2.1
2600                    .7                             1.8
2700                    .6                             1.5
2800                    .7                             1.8
2900                    .4                             1.0
3000                    .3                              .8
3100                    .4                             1.1
3200                    .3                              .8

PR/PH                              2.184

PR/1700                             .756

PH/1800                             .498

SUM OF THE N-ALKANES 1600-3200 / PR+PH     5.484
```

TABLE 3-c CONT.'D

```
NAME            PERCENT COMPOSITION           PERCENTAGE OF
----                1100-3200                   1600-3200

1100                  4.9
1150                  1.0
1200                  8.6
1253                  5.2
1300                  9.6
1356                  6.2
1400                  9.6
1440                  7.2
1500                  8.4
1551                  1.7
1600                  4.7                         12.5
1670                  4.0                         10.7
1700                  5.5                         14.7
1780                  1.5                          3.9
1800                  3.9                         10.3
1851                  1.3                          3.4
1900                  3.2                          8.5
2000                  2.4                          6.4
2100                  1.9                          5.1
2200                  1.6                          4.3
2300                  1.4                          3.8
2400                  1.3                          3.4
2500                   .9                          2.5
2600                   .9                          2.3
2700                   .7                          1.9
2800                   .7                          1.9
2900                   .4                          1.0
3000                   .4                          1.0
3100                   .5                          1.4
3200                   .4                           .9

PR/PH                             2.764

PR/1700                            .730

PH/1800                            .376

SUM OF THE N-ALKANES 1600-3200 / PR+PH      5.614
```

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TABLE 3-c CONT.'D

```
NAME           PERCENT COMPOSITION           PERCENTAGE OF
----                1100-3200                  1600-3200

1100                   4.5
1150                    .9
1200                   8.3
1253                   5.2
1300                   9.4
1356                   6.3
1400                   9.7
1440                   7.4
1500                   8.7
1551                   1.7
1600                   4.8                      12.7
1670                   4.2                      11.2
1700                   5.7                      15.2
1780                   1.5                       4.0
1800                   4.0                      10.5
1851                   1.3                       3.4
1900                   3.2                       8.5
2000                   2.4                       6.4
2100                   1.9                       5.1
2200                   1.6                       4.2
2300                   1.4                       3.7
2400                   1.2                       3.3
2500                    .9                       2.4
2600                    .8                       2.2
2700                    .7                       1.8
2800                    .6                       1.6
2900                    .3                        .8
3000                    .3                        .8
3100                    .6                       1.6
3200                    .3                        .7

PR/PH                            2.786

PR/1700                           .736

PH/1800                           .382

SUM OF THE N-ALKANES 1600-3200 / PR+PH      5.366
```

TABLE 3-c CONT.'D

```
NAME          PERCENT COMPOSITION           PERCENTAGE OF
----               1100-3200                  1600-3200

1100                  3.9
1150                  0.0
1200                  7.8
1253                  5.1
1300                  9.3
1356                  6.4
1400                 10.0
1440                  7.5
1500                  8.9
1551                  1.7
1600                  4.9                       12.6
1670                  4.2                       10.6
1700                  5.8                       14.8
1780                  1.5                        3.8
1800                  4.1                       10.4
1851                  1.3                        3.4
1900                  3.4                        8.6
2000                  2.5                        6.5
2100                  2.0                        5.2
2200                  1.7                        4.4
2300                  1.5                        3.8
2400                  1.3                        3.3
2500                  1.0                        2.4
2600                   .9                        2.3
2700                   .7                        1.9
2800                   .7                        1.9
2900                   .4                        1.0
3000                   .4                         .9
3100                   .5                        1.4
3200                   .4                         .9

PR/PH                               2.806

PR/1700                              .715

PH/1800                              .364

SUM OF THE N-ALKANES 1600-3200 / PR+PH      5.724
```

TABLE 3-c CONT.'D

```
NAME          PERCENT COMPOSITION          PERCENTAGE OF
----               1100-3200                 1600-3200

1100                  4.5
1150                   .8
1200                  7.9
1253                  5.0
1300                  9.0
1356                  6.0
1400                  9.3
1440                  7.1
1500                  8.3
1551                  1.6
1600                  8.3                      20.5
1670                  4.1                      10.1
1700                  5.6                      13.9
1780                  1.5                       3.7
1800                  3.9                       9.7
1851                  1.3                       3.2
1900                  3.2                       7.8
2000                  2.4                       5.8
2100                  1.9                       4.6
2200                  1.5                       3.8
2300                  1.3                       3.3
2400                  1.2                       2.9
2500                   .9                       2.1
2600                   .8                       1.9
2700                   .7                       1.6
2800                   .5                       1.3
2900                   .5                       1.1
3000                   .4                        .9
3100                   .5                       1.1
3200                   .2                        .6

PR/PH                          2.754

PR/1700                         .732

PH/1800                         .381

SUM OF THE N-ALKANES 1600-3200 / PR+PH     6.001
```

TABLE 3-c CONT.'D

```
NAME              PERCENT COMPOSITION             PERCENTAGE OF
----                   1100-3200                   1600-3200

1100                   5.3
1150                   0.0
1200                   8.9
1253                   5.3
1300                   9.1
1356                   5.6
1400                   8.9
1440                   6.5
1500                   8.2
1551                    .3
1600                   8.4                          19.9
1670                   4.2                          10.0
1700                   5.6                          13.4
1780                   2.0                           4.7
1800                   4.0                           9.6
1851                   1.3                           3.0
1900                   3.2                           7.6
2000                   2.4                           5.7
2100                   1.9                           4.6
2200                   1.6                           3.8
2300                   1.4                           3.3
2400                   1.2                           2.9
2500                    .9                           2.2
2600                    .8                           1.8
2700                    .6                           1.5
2800                    .9                           2.2
2900                    .4                           1.0
3000                    .3                            .7
3100                    .4                           1.0
3200                    .4                           1.0

PR/PH                               2.126

PR/1700                              .744

PH/1800                              .489

SUM OF THE N-ALKANES 1600-3200 / PR+PH      5.616
```

TABLE 3-c CONT.'D

NAME	PERCENT COMPOSITION 1100-3200	PERCENTAGE OF 1600-3200
1100	5.1	
1150	2.2	
1200	9.2	
1253	5.6	
1300	9.1	
1356	5.7	
1400	9.1	
1440	6.4	
1500	7.9	
1551	.2	
1600	7.9	20.1
1670	4.0	10.2
1700	5.1	12.8
1780	1.8	4.5
1800	3.7	9.3
1851	1.4	3.5
1900	2.8	7.1
2000	2.1	5.4
2100	1.7	4.4
2200	1.5	3.9
2300	1.4	3.4
2400	1.3	3.3
2500	.9	2.3
2600	.8	2.1
2700	.6	1.6
2800	.9	2.3
2900	.4	1.0
3000	.3	.8
3100	.4	1.0
3200	.4	1.0

PR/PH	2.274
PR/1700	.798
PH/1800	.484
SUM OF THE N-ALKANES 1600-3200 / PR+PH	5.563

TABLE 3-c CONT.'D

NAME ----	PERCENT COMPOSITION 1100-3200	PERCENTAGE OF 1600-3200
1100	1.1	
1150	.4	
1200	4.4	
1253	4.3	
1300	7.8	
1356	6.1	
1400	9.5	
1440	7.6	
1500	9.1	
1551	3.2	
1600	9.8	21.1
1670	4.5	9.6
1700	6.1	13.1
1780	1.9	4.1
1800	4.3	9.2
1851	1.4	3.0
1900	3.5	7.6
2000	2.7	5.7
2100	2.1	4.6
2200	1.8	3.9
2300	1.6	3.4
2400	1.4	3.0
2500	1.0	2.2
2600	.9	2.0
2700	.8	1.6
2800	.7	1.5
2900	.5	1.2
3000	.5	1.1
3100	.6	1.2
3200	.4	.9

PR/PH	2.335
PR/1700	.731
PH/1800	.448
SUM OF THE N-ALKANES 1600-3200 / PR+PH	6.084

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TABLE 3-c CONT.'D

```
NAME              PERCENT COMPOSITION          PERCENTAGE OF
----                   1100-3200                  1600-3200

1100                 4.9
1150                 1.8
1200                 8.8
1253                 5.4
1300                 9.3
1356                 5.7
1400                 8.9
1440                 6.6
1500                 8.3
1551                  .3
1600                 8.2                          20.4
1670                 4.1                          10.1
1700                 5.4                          13.6
1780                 1.9                           4.7
1800                 3.8                           9.5
1851                 1.2                           3.0
1900                 3.0                           7.5
2000                 2.2                           5.5
2100                 1.8                           4.5
2200                 1.5                           3.7
2300                 1.3                           3.2
2400                 1.3                           3.3
2500                  .8                           2.1
2600                  .8                           1.9
2700                  .6                           1.5
2800                  .7                           1.7
2900                  .5                           1.2
3000                  .3                            .8
3100                  .4                           1.0
3200                  .3                            .7

PR/PH                            2.140

PR/1700                           .746

PH/1800                           .496

SUM OF THE N-ALKANES 1600-3200 / PR+PH       5.541
```

TABLE 3-c CONT.'D

```
NAME              PERCENT COMPOSITION            PERCENTAGE OF
----                   1100-3200                   1600-3200

1100                      0.0
1150                      0.0
1200                      0.0
1253                      0.0
1300                     11.7
1356                      7.7
1400                     11.8
1440                      8.6
1500                      9.9
1551                       .2
1600                     10.1                        20.3
1670                      5.2                        10.3
1700                      6.6                        13.2
1780                      2.3                         4.6
1800                      4.7                         9.4
1851                      1.7                         3.4
1900                      3.7                         7.4
2000                      2.7                         5.5
2100                      2.3                         4.5
2200                      1.9                         3.9
2300                      1.7                         3.4
2400                      1.4                         2.9
2500                      1.1                         2.2
2600                      1.0                         1.9
2700                       .8                         1.5
2800                      1.0                         2.0
2900                       .5                         1.0
3000                       .4                          .7
3100                       .6                         1.2
3200                       .4                          .7

PR/PH                                2.230

PR/1700                               .782

PH/1800                               .491

SUM OF THE N-ALKANES 1600-3200 / PR+PH    5.465
```

TABLE 3-c CONT.'D

```
RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE  332603-1

NAME             PERCENT COMPOSITION              PERCENTAGE OF
----                  1100-3200                     1600-3200

1100                   0.0
1150                   2.8
1200                   9.7
1253                   6.0
1300                  10.3
1356                   6.1
1400                  10.0
1440                   7.1
1500                   3.5
1551                   1.7
1600                   8.6                           20.0
1670                   4.4                           10.3
1700                   5.6                           13.1
1780                   2.0                            4.6
1800                   4.1                            9.6
1851                   1.5                            3.5
1900                   3.2                            7.4
2000                   2.4                            5.6
2100                   2.0                            4.6
2200                   1.7                            3.9
2300                   1.4                            3.3
2400                   1.2                            2.9
2500                   1.0                            2.2
2600                    .8                            1.9
2700                    .7                            1.5
2800                    .8                            1.9
2900                    .4                            1.0
3000                    .3                             .8
3100                    .5                            1.1
3200                    .4                             .8

PR/PH                              2.259

PR/1700                             .789

PH/1800                             .476

SUM OF THE N-ALKANES 1600-3200 / PR+PH        5.490
```

TABLE 3-c CONT.'D.

Summary for Cruise 3 succession:
B. Aromatic Fraction Distribution for All Samples

Sequence	Sample Number	Treatment (Days)
1	311427	2, 0
2	312427	2, 0
3	311507	2, 10
4	312507	2, 10
5	321507	2, 10
6	322507	2, 10
7	331507	2, 10
8	332507	2, 10
9	311520	2, 23
10	312520	2, 23
**11	321520	2, 23
**12	322520	2, 23
13	331520	2, 23
14	332520	2, 23
15	311603	2, 37
16	312603	2, 37
17	321603	2, 37
18	322603	2, 37
19	331603	3, 37
20	332603	2, 37

* For all samples the first digit is the cruise, the second is the station, the third is the replicate and other numbers are dates or sample treatments.

** Print out missing.

TABLE 3-c CONT.'D

NAME	PERCENT COMPOSITION
1870	19.5 ✓
1905	11.0
1980	7.0 ✓
2020	20.7 ✓
2060	8.5
2130	10.8 ✓
2170	4.2
2205	5.6
2250	1.4
2430	3.6
2520	3.5
2780	4.3

TABLE 3-c CONT.'D

NAME	PERCENT COMPOSITION
1870	18.4
1905	9.8
1980	7.5
2020	20.3
2060	9.0
2130	14.1
2170	4.3
2205	5.9
2250	1.7
2430	3.0
2520	3.8
2780	2.2

TABLE 3-c CONT.'D

NAME	PERCENT COMPOSITION
1870	19.1 ✓
1905	12.8
1980	3.2 ✓
2020	26.6 /
2060	8.5
2130	14.2 /
2170	3.2
2205	5.0
2250	0.0
2430	4.4
2520	2.9
2780	0.0

TABLE 3-c CONT.'D

NAME	PERCENT COMPOSITION
1870	20.4
1905	12.9
1980	6.3
2020	19.6
2060	7.9
2130	11.8
2170	3.6
2205	4.9
2250	1.2
2430	3.3
2520	3.2
2780	4.8

TABLE 3-c CONT.'D

NAME	PERCENT COMPOSITION
1870	18.8
1905	11.2
1980	10.6
2020	19.6
2060	7.0
2130	8.1
2170	4.5
2205	9.1
2250	2.7
2430	2.5
2520	1.9
2780	4.0

TABLE 3-c CONT.'D

NAME	PERCENT COMPOSITION
1870	19.5
1905	12.7
1980	4.2
2020	25.1
2060	8.2
2130	14.3
2170	3.7
2205	4.7
2250	0.0
2430	4.2
2520	2.5
2780	1.0

TABLE 3-c CONT.'D

NAME	PERCENT COMPOSITION
1870	15.9
1905	7.1
1980	10.0
2020	19.2
2060	7.2
2130	9.3
2170	5.5
2205	11.4
2250	3.7
2430	3.3
2520	2.4
2780	5.0

TABLE 3-c CONT.'D

NAME	PERCENT COMPOSITION
1870	15.6
1905	6.6
1980	9.3
2020	17.2
2060	6.7
2130	9.0
2170	5.5
2205	8.5
2250	2.7
2430	2.3
2520	2.0
2780	14.5

TABLE 3-c CONT.'D

NAME	PERCENT COMPOSITION
1870	20.9
1905	10.6
1980	4.5
2020	24.0
2060	7.9
2130	14.4
2170	4.3
2205	5.0
2250	0.0
2430	3.6
2520	3.4
2780	1.4

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TABLE 3-c CONT.'D

NAME	PERCENT COMPOSITION
1870	17.3
1905	9.7
1980	10.0
2020	17.5
2060	6.9
2130	8.1
2170	5.1
2205	7.9
2250	2.5
2430	2.0
2520	1.9
2780	11.0

TABLE 3-c CONT.'D

NAME	PERCENT COMPOSITION
1870	26.1
1905	0.0
1980	10.1
2020	23.0
2060	10.4
2130	11.0
2170	4.1
2205	5.5
2250	0.0
2430	3.0
2520	3.7
2780	3.1

TABLE 3-c CONT.'D

NAME	PERCENT COMPOSITION
1870	18.8
1905	9.9
1980	6.0
2020	16.6
2060	6.9
2130	8.3
2170	3.2
2205	4.6
2250	0.0
2430	1.6
2520	2.5
2780	21.5

TANLE 3-c CONT.'D

NAME	PERCENT COMPOSITION
1870	20.2
1905	11.7
1980	11.2
2020	19.8
2060	7.5
2130	9.4
2170	5.4
2205	8.3
2250	2.5
2430	1.9
2520	2.1
2780	0.0

TABLE 3-c CONT.'D

NAME	PERCENT COMPOSITION
1870	13.3 ✓
1905	10.4
1980	10.3 ✓
2020	19.0 ✓
2060	7.2
2130	9.3
2170	5.3
2205	8.9
2250	2.7
2430	2.0
2520	2.0
2780	9.6

TABLE 3-c CONT.'D

NAME	PERCENT COMPOSITION
1870	20.2
1905	7.2
1980	8.1
2020	21.4
2060	9.1
2130	14.3
2170	4.4
2205	5.4
2250	1.4
2430	2.9
2520	3.5
2780	2.1

RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE 322803-2

TABLE 3-c CONT.'D

NAME	PERCENT COMPOSITION
1870	20.5
1905	11.4
1980	7.1
2020	20.4
2060	8.3
2130	12.7
2170	4.0
2205	5.4
2250	1.4
2430	3.5
2520	3.2
2780	2.2

TABLE 3-c CONT.'D

NAME	PERCENT COMPOSITION
1870	16.3
1905	12.6
1980	11.9
2020	21.7
2060	8.2
2130	10.7
2170	4.2
2205	6.1
2250	1.7
2430	2.7
2520	2.3
2780	1.4

TABLE 3.c CONT.'D

```
RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE   332803-2

  NAME     PERCENT COMPOSITION


   1870            20.3

   1905            12.8

   1980             7.4

   2020            16.3

   2060             7.2

   2130            11.1

   2170             4.1

   2205             5.6

   2250             1.8

   2430             2.7

   2520             2.7

   2780             8.0
```

TABLE 3-d

Summary for Cruise 4 succession:
A. Saturated Hydrocarbon Distribution for All Samples

Sequence	Sample Number	Treatment (Days)
1	411	(RUAD-1), 0
2	412	(RUAD-2), 0
3	418	(RUAD-8), 53
4	419	(RUAD-9), 53
5	424	(RUAE-4), 53
6	425	(RUAE-5), 53
7	434	(RUAF-4), 53
8	435	(RUAF-5), 53
9	413	(RUAD-3), Sterile Weather Control (53-day)
10	414	(RUAD-4), Sterile Weather Control (53-day)

```
NAME              PERCENT COMPOSITION          PERCENTAGE OF          COMPONENT
----                   1100-3200                  1600-3200          WEIGHT IN UG.

1100                  0.0                                                0.000
1150                  0.0                                                0.000
1200                  0.0                                                0.000
1253                  0.0                                                0.000
1300                  0.0                                                0.000
1356                  8.2                                             1288.069
1400                  9.4                                             1474.895
1440                  7.4                                             1165.492
1500                  9.6                                             1506.719
1551                  3.2                                              497.898
1600                  6.8                            10.9             1072.844
1670                  4.2                             6.8              668.312
1700                  7.1                            11.4             1123.703
1780                  1.7                             2.8              271.551
1800                  6.4                            10.2             1007.238
1851                  2.1                             3.4              329.673
1900                  5.4                             8.6              847.724
2000                  4.2                             6.8              665.206
2100                  3.5                             5.6              550.108
2200                  3.3                             5.3              517.816
2300                  2.9                             4.7              462.943
2400                  2.4                             3.8              371.548
2500                  1.9                             3.1              302.518
2600                  1.9                             3.0              293.932
2700                  1.8                             3.0              290.466
2800                  1.3                             2.0              197.803
2900                  1.7                             2.7              262.332
3000                  1.4                             2.2              217.892
3100                  1.5                             2.4              234.362
3200                   .9                             1.5              149.380

PR/PH                            2.461

PR/1700                           .595

PH/1800                           .270

SUM OF THE N-ALKANES 1600-3200 / PR+PH      9.116
```

TABLE 3.d CONT.'D

TABLE 3-d CONT.'D

```
NAME          PERCENT COMPOSITION          PERCENTAGE OF        COMPONENT
----             1100-3200                  1600-3200          WEIGHT IN UG.

1100               0.0                                              0.000
1150               0.0                                              0.000
1200               0.0                                              0.000
1253               0.0                                              0.000
1300               0.0                                              0.000
1356               8.3                                           1782.234
1400              10.3                                           2191.728
1440               7.6                                           1631.198
1500              10.0                                           2132.908
1551               3.4                                            719.747
1600               7.1                            11.7           1514.902
1670               4.1                             6.7            868.752
1700               7.0                            11.6           1497.618
1780               1.4                             2.4            304.960
1800               5.9                             9.8           1263.566
1851               2.1                             3.5            447.112
1900               5.2                             8.6           1104.811
2000               4.1                             6.8            883.756
2100               3.3                             5.5            714.544
2200               3.1                             5.2            666.098
2300               2.8                             4.6            599.418
2400               2.3                             3.8            486.292
2500               2.0                             3.3            423.542
2600               1.9                             3.2            410.808
2700               1.7                             2.8            360.777
2800               1.3                             2.2            278.663
2900               1.5                             2.5            317.775
3000               1.4                             2.3            297.710
3100               1.2                             1.9            246.916
3200               1.0                             1.7            215.561

PR/PH                        2.849

PR/1700                       .580

PH/1800                       .241

SUM OF THE N-ALKANES 1600-3200 / PR+PH     9.613
```

```
RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE  ROAD, REPL. NO.  8

NAME          PERCENT COMPOSITION         PERCENTAGE OF           COMPONENT
----              1100-3200                 1600-3200           WEIGHT IN UG.

1100              0.0                                               0.000
1150              0.0                                               0.000
1200              0.0                                               0.000
1253              0.0                                               0.000
1300              0.0                                               0.000
1356              8.0                                            1322.733
1400              9.4                                            1546.998
1440              7.5                                            1232.767
1500              9.9                                            1633.317
1551              3.4                                             558.781
1600              7.4                          11.9              1217.896
1670              4.2                           6.7               690.560
1700              7.1                          11.4              1170.861
1780              1.5                           2.4               243.695
1800              6.0                           9.8               999.392
1851              2.1                           3.3               340.587
1900              5.4                           8.8               899.527
2000              4.3                           6.9               704.105
2100              3.5                           5.6               571.938
2200              3.3                           5.3               542.439
2300              2.9                           4.6               473.204
2400              2.3                           3.7               383.807
2500              1.9                           3.1               313.207
2600              1.9                           3.1               318.408
2700              1.7                           2.7               280.231
2800              1.3                           2.0               208.708
2900              1.6                           2.6               264.466
3000              1.4                           2.2               228.196
3100              1.3                           2.1               218.903
3200              1.0                           1.7               169.812

PR/PH                         2.834

PR/1700                        .590

PH/1800                        .244

SUM OF THE N-ALKANES 1600-3200 / PR+PH     9.596
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TABLE 3-d CONT.'D

TABLE 3-d CONT.'D

NAME	PERCENT COMPOSITION 1100-3200	PERCENTAGE OF 1600-3200	COMPONENT WEIGHT IN UG.
1100	0.0		0.000
1150	0.0		0.000
1200	0.0		0.000
1253	0.0		0.000
1300	0.0		0.000
1356	7.7		1394.320
1400	9.5		1729.372
1440	7.5		1360.114
1500	10.0		1808.445
1551	3.1		570.165
1600	6.8	10.9	1234.404
1670	4.3	6.8	772.670
1700	7.3	11.7	1317.977
1780	1.4	2.3	260.621
1800	6.2	9.9	1121.803
1851	1.3	2.1	240.614
1900	5.5	8.9	1003.536
2000	4.4	7.0	791.934
2100	3.6	5.8	650.379
2200	3.4	5.4	610.986
2300	3.0	4.9	547.230
2400	2.4	3.9	437.391
2500	2.0	3.2	358.764
2600	2.0	3.2	365.911
2700	1.8	2.8	317.875
2800	1.4	2.2	248.845
2900	1.6	2.5	285.063
3000	1.5	2.4	272.636
3100	1.3	2.1	232.145
3200	1.2	1.9	211.545

PR/PH 2.965

PR/1700 .586

PH/1800 .232

SUM OF THE N-ALKANES 1600-3200 / PR+PH 9.686

TABLE 3-d CONT.'D

NAME ----	PERCENT COMPOSITION 1100-3200	PERCENTAGE OF 1600-3200	COMPONENT WEIGHT IN UG.
1100	0.0		0.000
1150	0.0		0.000
1200	0.0		0.000
1253	0.0		0.000
1300	0.0		0.000
1356	8.3		1560.341
1400	8.7		1645.607
1440	7.6		1421.058
1500	9.6		1808.313
1551	3.2		602.508
1600	7.0	11.2	1323.220
1670	4.5	7.2	842.381
1700	7.3	11.7	1377.140
1780	1.7	2.7	318.417
1800	6.2	9.9	1169.901
1851	2.1	3.4	395.953
1900	5.4	8.7	1023.351
2000	4.2	6.8	795.651
2100	3.5	5.6	655.864
2200	3.2	5.2	609.462
2300	2.9	4.6	546.752
2400	2.3	3.7	434.142
2500	1.9	3.0	355.032
2600	1.9	3.1	361.898
2700	1.7	2.8	328.291
2800	1.3	2.1	248.662
2900	1.5	2.5	289.060
3000	1.5	2.4	280.511
3100	1.2	1.9	226.679
3200	1.0	1.7	195.490

PR/PH 2.646

PR/1700 .612

PH/1800 .272

SUM OF THE N-ALKANES 1600-3200 / PR+PH 8.805

TABLE 3-d CONT.'D

NAME	PERCENT COMPOSITION 1100-3200	PERCENTAGE OF 1600-3200	COMPONENT WEIGHT IN UG.
1100	0.0		0.000
1150	0.0		0.000
1200	0.0		0.000
1253	0.0		0.000
1300	0.0		0.000
1356	8.5		1349.816
1400	8.9		1418.622
1440	7.4		1182.114
1500	9.6		1525.573
1551	3.5		552.932
1600	7.3	11.8	1169.291
1670	4.4	7.1	703.933
1700	7.1	11.4	1137.045
1780	1.6	2.6	259.968
1800	6.1	9.8	976.549
1851	2.1	3.4	340.429
1900	5.4	8.6	858.755
2000	4.3	6.9	681.833
2100	3.5	5.6	552.246
2200	3.2	5.2	513.006
2300	2.8	4.6	454.541
2400	2.3	3.7	369.220
2500	1.9	3.0	300.074
2600	2.0	3.1	311.560
2700	1.7	2.7	268.870
2800	1.3	2.2	213.810
2900	1.5	2.4	240.550
3000	1.4	2.3	227.260
3100	1.2	1.9	186.680
3200	1.0	1.7	166.777

PR/PH 2.708

PR/1700 .619

PH/1800 .266

SUM OF THE N-ALKANES 1600-3200 / PR+PH 8.951

TABLE 3.d CONT.'D

```
NAME         PERCENT COMPOSITION          PERCENTAGE OF          COMPONENT
----              1100-3200                 1600-3200           WEIGHT IN UG.

1100                 0.0                                            0.000
1150                 0.0                                            0.000
1200                 0.0                                            0.000
1253                 0.0                                            0.000
1300                 0.0                                            0.000
1356                 8.8                                         1382.481
1400                 9.0                                         1425.094
1440                 7.3                                         1154.322
1500                 9.6                                         1510.103
1551                 3.3                                          526.809
1600                 7.3                           11.8          1157.689
1670                 4.3                            6.9           675.231
1700                 7.1                           11.4          1119.947
1780                 1.5                            2.4           238.638
1800                 6.0                            9.7           953.591
1851                 2.0                            3.3           322.139
1900                 5.4                            8.7           848.947
2000                 4.2                            6.8           668.499
2100                 3.5                            5.6           549.462
2200                 3.2                            5.2           510.613
2300                 2.9                            4.6           450.282
2400                 2.3                            3.7           363.381
2500                 2.0                            3.2           310.622
2600                 1.9                            3.1           307.190
2700                 1.7                            2.7           263.535
2800                 1.3                            2.1           201.695
2900                 1.5                            2.5           244.229
3000                 1.5                            2.4           233.222
3100                 1.4                            2.3           226.031
3200                  .9                            1.5           149.587

PR/PH                            2.830

PR/1700                           .603

PH/1800                           .250

SUM OF THE N-ALKANES 1600-3200 / PR+PH      9.365
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TABLE 3.d CONT.'D

NAME	PERCENT COMPOSITION 1100-3200	PERCENTAGE OF 1600-3200	COMPONENT WEIGHT IN UG.
1100	0.0		0.000
1150	0.0		0.000
1200	0.0		0.000
1253	0.0		0.000
1300	0.0		0.000
1356	8.4		1612.141
1400	9.6		1830.606
1440	7.4		1424.208
1500	9.8		1879.851
1551	3.3		623.031
1600	6.9	11.1	1314.004
1670	4.1	6.7	793.896
1700	7.1	11.6	1367.974
1780	1.5	2.4	279.277
1800	6.0	9.8	1158.613
1851	2.1	3.5	409.714
1900	5.3	8.7	1024.111
2000	4.2	6.9	814.371
2100	3.5	5.7	667.272
2200	3.2	5.2	611.363
2300	2.9	4.7	552.182
2400	2.4	3.8	453.187
2500	2.0	3.3	390.818
2600	1.9	3.2	372.388
2700	1.7	2.8	332.279
2800	1.3	2.1	251.000
2900	1.6	2.6	307.945
3000	1.4	2.2	259.330
3100	1.3	2.1	251.199
3200	1.0	1.6	186.627

PR/PH 2.843

PR/1700 .580

PH/1800 .241

SUM OF THE N-ALKANES 1600-3200 / PR+PH 9.611

TABLE 3.d CONT.'D

```
NAME          PERCENT COMPOSITION              PERCENTAGE OF          COMPONENT
----              1100-3200                      1600-3200          WEIGHT IN UG.

1100                  0.0                                                 0.000
1150                  0.0                                                 0.000
1200                  0.0                                                 0.000
1253                  0.0                                                 0.000
1300                  0.0                                                 0.000
1356                  5.5                                               869.747
1400                  7.2                                              1153.016
1440                  6.6                                              1055.989
1500                  9.0                                              1427.625
1551                  3.3                                               526.976
1600                  7.3                               10.6           1160.359
1670                  4.6                                6.8            739.862
1700                  7.7                               11.3           1233.525
1780                  1.7                                2.5            276.834
1800                  6.7                                9.8           1070.145
1851                  2.3                                3.4            367.008
1900                  6.0                                8.8            961.632
2000                  4.8                                7.0            761.269
2100                  3.9                                5.7            624.262
2200                  3.7                                5.4            586.536
2300                  3.3                                4.8            519.167
2400                  2.6                                3.8            414.877
2500                  2.2                                3.1            343.316
2600                  2.2                                3.2            353.136
2700                  1.9                                2.8            304.291
2800                  1.5                                2.2            241.598
2900                  1.8                                2.6            285.314
3000                  1.6                                2.3            254.835
3100                  1.4                                2.1            230.177
3200                  1.1                                1.7            181.134

PR/PH                             2.673

PR/1700                            .600

PH/1800                            .259

SUM OF THE N-ALKANES 1600-3200 / PR+PH     9.369
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TABLE 3.d CONT.'D

NAME	PERCENT COMPOSITION 1100-3200	PERCENTAGE OF 1600-3200	COMPONENT WEIGHT IN UG.
1100	0.0		0.000
1150	0.0		0.000
1200	0.0		0.000
1253	0.0		0.000
1300	0.0		0.000
1356	6.3		1129.012
1400	8.0		1427.571
1440	6.8		1207.939
1500	9.4		1670.345
1551	3.4		603.881
1600	7.4	11.1	1314.713
1670	4.6	6.9	814.036
1700	7.3	11.0	1295.908
1780	1.5	2.3	269.350
1800	6.3	9.6	1132.087
1851	2.2	3.3	384.229
1900	5.8	8.7	1031.230
2000	4.6	6.9	812.964
2100	3.7	5.6	659.122
2200	3.5	5.3	621.125
2300	3.1	4.7	555.755
2400	2.6	3.9	459.870
2500	2.2	3.3	391.265
2600	2.2	3.3	392.466
2700	1.9	2.9	346.400
2800	1.6	2.4	278.074
2900	1.7	2.6	311.671
3000	1.6	2.4	280.032
3100	1.4	2.1	249.868
3200	1.1	1.7	202.745

PR/PH	3.022
PR/1700	.628
PH/1800	.238
SUM OF THE N-ALKANES 1600-3200 / PR+PH	9.540

TABLE 3.d CONT.'D

Summary for Cruise 4 succession:

B. Aromatic Fraction Distribution for All Samples

Sequence	Sample Number	Treatment (Days)
1	411	(RUAD-1), 0
2	412	(RUAD-2), 0
3	418	(RUAD-8), 53
4	419	(RUAD-9), 53
5	424	(RUAE-4), 53
6	425	(RUAE-5), 53
7	434	(RUAF-4), 53
8	435	(RUAF-4), 53
9	413	(RUAD-3), Sterile Weather Control (53-day)
10	414	(RUAD-4), Sterile Weather Control (53-day)

TABLE 3.d CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	3.5	37.927
1870	12.2	130.884
1910	5.1	54.523
1980	8.3	89.009
2020	18.0	192.746
2060	4.0	42.688
2080	3.5	37.597
2110	2.8	29.730
2130	14.5	155.984
2170	5.5	58.744
2210	4.8	51.580
2220	.7	7.514
2240	2.1	22.524
2290	.8	9.006
2310	2.1	22.958
2430	6.8	72.471
2520	5.3	57.017

TABLE 3-d CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	6.9	109.089
1870	14.9	235.480
1910	8.4	133.278
1980	7.5	118.371
2020	19.2	303.751
2060	4.2	65.764
2080	2.6	41.424
2110	2.7	42.182
2130	10.6	168.136
2170	5.1	80.460
2210	4.0	62.517
2220	.7	10.318
2240	2.5	39.667
2290	.8	12.517
2310	1.6	25.393
2430	5.3	83.954
2520	2.9	46.444

TABLE 3.d CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	5.2	54.901
1870	13.6	143.036
1910	6.7	70.589
1980	8.0	84.712
2020	18.3	192.639
2060	4.0	42.462
2080	3.3	35.260
2110	2.7	28.244
2130	13.5	142.036
2170	5.1	54.273
2210	4.2	44.738
2220	.7	7.514
2240	2.1	21.636
2290	.8	8.355
2310	2.0	21.505
2430	6.3	66.638
2520	3.4	35.883

TABLE 3.d CONT.'D

```
     NAME      PERCENT COMPOSITION        COMPONENT WEIGHT IN UG.


      1750              4.8                    55.506

      1870             12.9                   148.056

      1910              6.6                    75.332

      1980              8.0                    92.323

      2020             17.9                   206.063

      2060              3.9                    45.099

      2080              3.2                    37.238

      2110              2.5                    28.244

      2130             13.6                   156.119

      2170              5.2                    59.813

      2210              4.5                    51.470

      2220               .6                     6.326

      2240              2.8                    31.862

      2290               .8                     8.844

      2310              2.0                    23.153

      2430              6.2                    71.283

      2520              4.5                    51.612
```

TABLE 3.d CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	5.5	73.627
1870	14.2	188.789
1910	6.8	91.188
1980	8.2	109.630
2020	18.2	242.619
2060	3.9	52.240
2080	3.2	43.129
2110	2.2	29.730
2130	13.4	178.836
2170	5.1	67.939
2210	4.3	57.826
2220	.7	9.017
2240	1.9	26.010
2290	.8	10.813
2310	1.9	25.993
2430	5.9	79.004
2520	3.6	47.640

TABLE 3.d CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	2.2	21.320
1870	11.9	114.536
1910	5.5	52.909
1980	8.2	79.199
2020	19.8	190.987
2060	4.2	40.396
2080	3.1	30.137
2110	2.5	23.784
2130	15.6	150.303
2170	6.0	57.859
2210	4.3	41.735
2220	.7	6.763
2240	2.1	19.902
2290	.8	7.401
2310	2.1	20.449
2430	6.4	61.829
2520	4.6	44.568

TABLE 3.d CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	2.5	26.344
1870	12.2	126.214
1910	5.3	55.305
1980	8.7	90.774
2020	18.5	191.985
2060	3.5	36.234
2080	3.4	35.138
2110	2.7	28.244
2130	15.6	162.173
2170	5.6	57.730
2210	4.7	49.073
2220	.6	6.289
2240	4.1	42.047
2290	.7	7.431
2310	1.8	19.079
2430	7.8	81.087
2520	2.2	22.491

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TABLE 3.d CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	3.2	35.306
1870	13.3	147.440
1910	6.9	76.839
1980	8.2	91.178
2020	20.0	222.216
2060	4.1	45.775
2080	2.7	30.531
2110	2.5	28.244
2130	14.7	163.958
2170	5.5	61.127
2210	4.3	47.695
2220	.7	7.514
2240	1.9	21.235
2290	.8	8.504
2310	1.7	18.684
2430	6.0	66.638
2520	3.6	39.525

TABLE 3.d CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	2.2	18.943
1870	10.4	89.161
1910	3.0	25.523
1980	7.9	67.849
2020	15.8	135.706
2060	3.6	30.804
2080	3.9	33.546
2110	3.3	28.244
2130	15.1	129.381
2170	6.1	52.098
2210	5.5	47.600
2220	.9	7.514
2240	2.5	21.752
2290	.9	7.631
2310	3.8	32.248
2430	8.8	75.308
2520	6.4	54.792

TABLE 3.d CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	2.2	18.426
1870	10.9	92.892
1910	3.9	33.269
1980	8.5	72.453
2020	17.5	148.742
2060	3.7	31.146
2080	3.7	31.761
2110	2.6	22.298
2130	15.3	129.996
2170	5.8	49.300
2210	5.1	43.379
2220	.9	7.514
2240	2.2	18.392
2290	.9	7.631
2310	3.2	27.416
2430	8.0	67.744
2520	5.6	47.796

TABLE 3-e

Summary for Cruise 5 succession:
A. Saturated Hydrocarbon Distribution for All Samples

Sequence	Sample Number	Treatment (Days)
*1	511	(RUAG-1), 0
2	512	(RUAG-2), 0
3	517	(RUAG-7), 88
4	518	(RUAG-8), 88
5	523	(RUAJ-3), 88
6	524	(RUAJ-4), 88
7	533	(RUAL-3), 88
8	534	(RUAL-4), 88
9	513	(RUAG-3), Sterile Weathering Control (88-day)
10	514	(RUAG-4), Sterile Weathering Control (88-day)
11	51(11)	(RUAH-11), 0
12	51(12)	(RUAH-12), 0
13	519	(RUAH-9), 88
14	51(10)	(RUAH-10),88
15	525	(RUAK-5), 88
16	526	(RUAK-6), 88
17	535	(RUAM-5), 88
18	536	(RUAM-6), 88
19	51(13)	(RUAH-13), Sterile Weathering Control (88-day)
20	51(14)	(RUAH-14), Sterile Weathering Control (88-day)

* Samples 1-10 were treated with 0.5% SLC Oil. All others were treated with 0.1% SLC Oil.

TABLE 3.e CONT.'D

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NAME      PERCENT COMPOSITION        PERCENTAGE OF         COMPONENT
----          1100-3200               1600-3200         WEIGHT IN UG.

1100              0.0                                         0.000
1150              0.0                                         0.000
1200              0.0                                         0.000
1253              0.0                                         0.000
1300              0.0                                         0.000
1356             10.1                                      1595.187
1400              9.4                                      1493.133
1440              7.4                                      1175.685
1500              9.6                                      1524.524
1551              3.2                                       508.852
1600              7.1                       11.8           1124.042
1670              4.1                        6.8            648.502
1700              6.8                       11.3           1077.355
1780              1.5                        2.4            231.678
1800              5.8                        9.6            915.769
1851              2.0                        3.2            308.949
1900              5.1                        8.5            814.500
2000              4.1                        6.7            642.603
2100              3.4                        5.6            532.332
2200              3.2                        5.3            502.200
2300              2.8                        4.7            448.108
2400              2.3                        3.8            365.416
2500              1.9                        3.1            297.671
2600              1.9                        3.2            305.517
2700              1.7                        2.8            263.211
2800              1.3                        2.1            199.644
2900              1.5                        2.6            245.216
3000              1.5                        2.5            236.273
3100              1.4                        2.3            223.153
3200               .9                        1.5            146.113

 PR/PH                      2.799

 PR/1700                     .602

 PH/1800                     .253

 SUM OF THE N-ALKANES 1600-3200 / PR+PH    9.474
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TABLE 3.e CONT.'D

NAME ----	PERCENT COMPOSITION 1100-3200	PERCENTAGE OF 1600-3200	COMPONENT WEIGHT IN UG.
1100	0.0		0.000
1150	0.0		0.000
1200	0.0		0.000
1253	0.0		0.000
1300	0.0		0.000
1356	10.3		1913.692
1400	9.3		1740.868
1440	7.4		1379.594
1500	9.7		1806.472
1551	3.2		598.401
1600	7.0	11.7	1306.152
1670	4.1	6.9	766.054
1700	6.9	11.6	1291.479
1780	1.5	2.5	276.076
1800	5.9	9.8	1099.623
1851	2.0	3.3	373.431
1900	5.2	8.7	976.471
2000	4.1	6.9	769.412
2100	3.4	5.6	626.734
2200	3.2	5.2	586.742
2300	2.8	4.7	520.827
2400	2.3	3.8	422.080
2500	1.8	3.1	341.996
2600	1.9	3.1	349.849
2700	1.6	2.7	299.879
2800	1.3	2.1	237.817
2900	1.5	2.4	273.143
3000	1.4	2.3	255.606
3100	1.2	1.9	216.678
3200	1.0	1.7	190.835

PR/PH 2.775

PR/1700 .593

PH/1800 .251

SUM OF THE N-ALKANES 1600-3200 / PR+PH 9.371

NAME ----	PERCENT COMPOSITION 1100-3200	PERCENTAGE OF 1600-3200	COMPONENT WEIGHT IN UG.
1100	0.0		0.000
1150	0.0		0.000
1200	0.0		0.000
1253	0.0		0.000
1300	0.0		0.000
1356	7.2		1337.028
1400	9.5		1766.834
1440	7.7		1430.225
1500	9.7		1804.148
1551	3.2		592.542
1600	7.1	11.3	1326.903
1670	4.6	7.3	862.476
1700	7.3	11.7	1371.706
1780	1.8	2.9	334.608
1800	6.2	9.8	1151.446
1851	2.1	3.3	390.870
1900	5.4	8.5	1002.916
2000	4.2	6.7	784.183
2100	3.5	5.5	647.575
2200	3.3	5.2	607.466
2300	2.9	4.6	540.478
2400	2.3	3.7	429.891
2500	2.0	3.1	364.451
2600	1.9	3.1	360.827
2700	1.8	2.8	332.730
2800	1.3	2.1	243.759
2900	1.6	2.6	302.530
3000	1.4	2.2	263.721
3100	1.2	1.9	223.923
3200	1.1	1.7	197.277

PR/PH 2.578

PR/1700 .629

PH/1800 .291

SUM OF THE N-ALKANES 1600-3200 / PR+PH 8.480

TABLE 3.e CONT.'D

NAME ----	PERCENT COMPOSITION 1100-3200	PERCENTAGE OF 1600-3200	COMPONENT WEIGHT IN UG.
1100	0.0		0.000
1150	0.0		0.000
1200	0.0		0.000
1253	0.0		0.000
1300	0.0		0.000
1356	7.7		1621.255
1400	9.6		2021.850
1440	7.6		1597.815
1500	9.7		2034.862
1551	3.3		684.829
1600	7.1	11.4	1489.720
1670	4.5	7.2	937.141
1700	7.3	11.7	1529.934
1780	1.7	2.7	347.562
1800	6.1	9.8	1287.926
1851	2.1	3.4	441.066
1900	5.4	8.7	1132.761
2000	4.2	6.8	883.986
2100	3.5	5.6	728.027
2200	3.2	5.2	675.707
2300	2.9	4.6	607.242
2400	2.3	3.7	479.715
2500	1.9	3.1	401.339
2600	1.9	3.0	397.974
2700	1.7	2.7	351.666
2800	1.3	2.1	279.271
2900	1.6	2.5	332.939
3000	1.4	2.3	303.833
3100	1.2	1.9	253.010
3200	1.0	1.7	218.134

PR/PH 2.696

PR/1700 .613

PH/1800 .270

SUM OF THE N-ALKANES 1600-3200 / PR+PH 8.837

```
NAME          PERCENT COMPOSITION          PERCENTAGE OF        COMPONENT
----              1100-3200                  1600-3200          WEIGHT IN UG.

1100                 0.0                                            0.000
1150                 0.0                                            0.000
1200                 0.0                                            0.000
1253                 0.0                                            0.000
1300                 0.0                                            0.000
1356                 6.3                                          900.040
1400                 8.8                                         1260.836
1440                 7.2                                         1028.918
1500                11.0                                         1579.276
1551                 5.2                                          746.107
1600                 7.0                           11.4          1010.541
1670                 4.2                            6.9           609.855
1700                 7.1                           11.6          1025.720
1780                 1.8                            2.9           252.683
1800                 6.4                           10.4           918.619
1851                 2.0                            3.3           294.180
1900                 5.3                            8.6           760.784
2000                 4.2                            6.8           600.880
2100                 3.5                            5.6           497.000
2200                 3.2                            5.2           462.603
2300                 2.9                            4.6           410.575
2400                 2.3                            3.8           332.437
2500                 1.9                            3.1           272.615
2600                 1.8                            3.0           265.887
2700                 1.7                            2.8           244.744
2800                 1.2                            2.0           174.021
2900                 1.6                            2.6           228.707
3000                 1.3                            2.0           181.567
3100                 1.4                            2.2           198.593
3200                  .8                            1.4           120.841

PR/PH                          2.414

PR/1700                         .595

PH/1800                         .275

SUM OF THE N-ALKANES 1600-3200 / PR+PH      8.934
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TABLE 3.e CONT.'D

TABLE 3.e CONT.'D

```
NAME      PERCENT COMPOSITION          PERCENTAGE OF        COMPONENT
----           1100-3200                 1600-3200       WEIGHT IN UG.

1100              0.0                                          0.000
1150              0.0                                          0.000
1200              0.0                                          0.000
1253              0.0                                          0.000
1300              0.0                                          0.000
1356              8.6                                       1390.144
1400              9.2                                       1493.913
1440              7.3                                       1189.443
1500              9.8                                       1591.182
1551              3.4                                        551.769
1600              7.5                          12.1         1210.101
1670              4.2                           6.9          685.479
1700              7.1                          11.5         1149.501
1780              1.5                           2.4          241.341
1800              6.0                           9.8          974.868
1851              2.1                           3.3          333.718
1900              5.4                           8.7          871.370
2000              4.2                           6.9          686.543
2100              3.4                           5.6          558.957
2200              3.2                           5.2          523.711
2300              2.9                           4.6          462.902
2400              2.3                           3.7          371.757
2500              1.9                           3.0          302.996
2600              1.9                           3.1          310.630
2700              1.6                           2.6          263.568
2800              1.3                           2.1          213.325
2900              1.5                           2.4          237.825
3000              1.4                           2.3          228.128
3100              1.2                           2.0          199.222
3200              1.0                           1.6          164.818

PR/PH                         2.840

PR/1700                        .596

PH/1800                        .248

SUM OF THE N-ALKANES 1600-3200 / PR+PH     9.420
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TABLE 3.e CONT.'D

```
NAME        PERCENT COMPOSITION          PERCENTAGE OF        COMPONENT
----           1100-3200                  1600-3200         WEIGHT IN UG.

1100            0.0                                             0.000
1150            0.0                                             0.000
1200            0.0                                             0.000
1253            0.0                                             0.000
1300            0.0                                             0.000
1356            8.3                                          1435.187
1400            9.0                                          1544.536
1440            7.4                                          1272.175
1500            9.7                                          1671.878
1551            3.4                                           576.867
1600            7.3                                11.7      1251.984
1670            4.2                                 6.7       721.464
1700            7.1                                11.4      1225.602
1780            1.5                                 2.4       254.606
1800            6.1                                 9.7      1042.777
1851            2.1                                 3.3       354.521
1900            5.4                                 8.8       938.098
2000            4.3                                 6.9       736.509
2100            3.5                                 5.6       605.020
2200            3.3                                 5.3       564.714
2300            2.9                                 4.6       495.350
2400            2.3                                 3.8       403.910
2500            1.9                                 3.1       331.249
2600            2.0                                 3.2       340.927
2700            1.7                                 2.7       293.959
2800            1.3                                 2.0       218.399
2900            1.6                                 2.6       277.207
3000            1.4                                 2.2       233.534
3100            1.5                                 2.4       260.273
3200            1.0                                 1.5       165.842

PR/PH                          2.834

PR/1700                         .589

PH/1800                         .244

SUM OF THE N-ALKANES 1600-3200 / PR+PH      9.615
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TABLE 3.e CONT.'D

NAME ----	PERCENT COMPOSITION 1100-3200	PERCENTAGE OF 1600-3200	COMPONENT WEIGHT IN UG.
1100	0.0		0.000
1150	0.0		0.000
1200	0.0		0.000
1253	0.0		0.000
1300	0.0		0.000
1356	10.2		1815.448
1400	9.2		1638.220
1440	7.4		1314.645
1500	9.6		1718.585
1551	3.3		593.051
1600	7.0	11.6	1250.784
1670	4.1	6.8	733.883
1700	6.9	11.5	1234.698
1780	1.5	2.5	266.182
1800	5.9	9.8	1051.539
1851	2.0	3.3	355.365
1900	5.2	8.7	931.627
2000	4.1	6.8	734.539
2100	3.3	5.6	597.062
2200	3.2	5.3	566.443
2300	2.8	4.7	502.211
2400	2.3	3.8	404.877
2500	1.9	3.1	336.071
2600	1.9	3.1	336.567
2700	1.6	2.7	291.693
2800	1.3	2.2	232.601
2900	1.5	2.5	265.987
3000	1.4	2.4	257.978
3100	1.2	2.1	220.878
3200	1.0	1.7	180.825

PR/PH	2.757
PR/1700	.594
PH/1800	.253
SUM OF THE N-ALKANES 1600-3200 / PR+PH	9.396

TABLE 3.e CONT.'D

NAME ----	PERCENT COMPOSITION 1100-3200	PERCENTAGE OF 1600-3200	COMPONENT WEIGHT IN UG.
1100	0.0		0.000
1150	0.0		0.000
1200	0.0		0.000
1253	0.0		0.000
1300	0.0		0.000
1356	1.6		207.904
1400	3.5		450.694
1440	4.9		621.625
1500	7.0		895.147
1551	3.1		390.727
1600	7.1	8.8	896.672
1670	5.6	7.0	710.342
1700	8.7	10.9	1110.405
1780	2.3	2.9	292.970
1800	7.9	9.9	1001.350
1851	2.7	3.4	347.849
1900	7.0	8.8	895.683
2000	5.6	7.0	706.857
2100	4.7	5.8	592.744
2200	4.4	5.5	559.762
2300	3.9	4.9	497.359
2400	3.1	3.9	394.248
2500	2.6	3.3	336.773
2600	2.6	3.2	329.319
2700	2.4	3.0	301.550
2800	1.8	2.2	226.402
2900	2.1	2.6	268.949
3000	2.2	2.7	277.122
3100	1.8	2.2	224.901
3200	1.4	1.8	179.236

PR/PH 2.425

PR/1700 .640

PH/1800 .293

SUM OF THE N-ALKANES 1600-3200 / PR+PH 8.770

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TABLE 3.e CONT.'D

NAME ----	PERCENT COMPOSITION 1100-3200	PERCENTAGE OF 1600-3200	COMPONENT WEIGHT IN UG.
1100	0.0		0.000
1150	0.0		0.000
1200	0.0		0.000
1253	0.0		0.000
1300	0.0		0.000
1356	4.5		626.300
1400	6.4		886.018
1440	6.2		852.576
1500	8.6		1190.512
1551	3.3		461.254
1600	7.5	10.6	1035.095
1670	4.8	6.8	668.398
1700	7.9	11.1	1089.211
1780	1.8	2.5	249.301
1800	7.0	9.8	959.638
1851	2.4	3.3	325.186
1900	6.3	8.9	870.105
2000	4.9	7.0	683.199
2100	4.1	5.7	561.477
2200	3.8	5.4	530.968
2300	3.4	4.8	469.730
2400	2.8	3.9	379.822
2500	2.2	3.2	309.209
2600	2.3	3.3	320.609
2700	2.0	2.8	273.576
2800	1.6	2.2	216.329
2900	1.7	2.5	240.823
3000	1.7	2.4	234.323
3100	1.5	2.0	200.568
3200	1.3	1.8	173.278

PR/PH 2.681

PR/1700 .614

PH/1800 .260

SUM OF THE N-ALKANES 1600-3200 / PR+PH 9.315

TABLE 3.e CONT.'D

NAME ----	PERCENT COMPOSITION 1100-3200	PERCENTAGE OF 1600-3200	COMPONENT WEIGHT IN UG.
1100	0.0		0.000
1150	0.0		0.000
1200	0.0		0.000
1253	3.2		35.133
1300	6.5		72.571
1356	4.3		47.748
1400	8.3		92.788
1440	2.5		27.590
1500	9.0		100.638
1551	2.0		21.761
1600	8.3	12.9	92.417
1670	4.7	7.3	52.222
1700	7.2	11.1	79.765
1780	2.2	3.4	24.136
1800	6.3	9.8	70.300
1851	2.2	3.4	24.010
1900	5.2	8.1	57.990
2000	4.7	7.3	52.304
2100	3.7	5.8	41.673
2200	3.6	5.5	39.673
2300	2.9	4.5	31.916
2400	2.4	3.8	26.964
2500	1.9	2.9	20.903
2600	2.0	3.1	22.151
2700	1.6	2.4	17.533
2800	.8	1.3	9.412
2900	1.5	2.4	16.939
3000	1.2	1.9	13.849
3100	1.1	1.8	12.622
3200	.9	1.3	9.584

PR/PH 2.164

PR/1700 .655

PH/1800 .343

SUM OF THE N-ALKANES 1600-3200 / PR+PH 8.067

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TABLE 3.e CONT.'D

```
NAME          PERCENT COMPOSITION          PERCENTAGE OF          COMPONENT
----              1100-3200                  1600-3200          WEIGHT IN UG.

1100                0.0                                             0.000
1150                0.0                                             0.000
1200                0.0                                             0.000
1253                0.0                                             0.000
1300                9.8                                            81.346
1356                6.1                                            50.856
1400                9.7                                            80.090
1440                2.5                                            20.676
1500                9.0                                            74.633
1551                1.9                                            15.859
1600                7.9                          13.0              65.633
1670                4.4                           7.3              36.738
1700                6.9                          11.3              56.736
1780                2.0                           3.3              16.616
1800                5.9                           9.7              49.137
1851                2.1                           3.4              17.151
1900                5.0                           8.2              41.206
2000                4.1                           6.8              34.240
2100                3.5                           5.7              28.716
2200                3.2                           5.2              26.138
2300                2.7                           4.5              22.636
2400                2.3                           3.8              18.908
2500                1.7                           2.9              14.432
2600                1.9                           3.1              15.415
2700                1.5                           2.4              12.005
2800                1.2                           2.0               9.925
2900                1.4                           2.3              11.676
3000                1.2                           2.0              10.077
3100                1.2                           2.0               9.997
3200                 .8                           1.3               6.722

PR/PH                            2.211

PR/1700                           .648

PH/1800                           .338

SUM OF THE N-ALKANES 1600-3200 / PR+PH      8.127
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TABLE 3.e CONT.'D

NAME ----	PERCENT COMPOSITION 1100-3200	PERCENTAGE OF 1600-3200	COMPONENT WEIGHT IN UG.
1100	0.0		0.000
1150	0.0		0.000
1200	0.0		0.000
1253	0.0		0.000
1300	3.6		83.745
1356	3.6		83.552
1400	6.7		157.944
1440	1.4		31.715
1500	8.8		206.958
1551	2.2		50.798
1600	8.8	11.9	205.685
1670	5.3	7.1	123.998
1700	8.2	11.1	192.006
1780	2.3	3.1	54.178
1800	7.1	9.6	167.345
1851	2.5	3.4	59.309
1900	6.2	8.4	146.273
2000	5.1	6.9	119.482
2100	4.3	5.8	100.411
2200	4.0	5.4	94.380
2300	3.4	4.7	80.969
2400	2.8	3.8	66.543
2500	2.3	3.2	54.828
2600	2.3	3.1	53.927
2700	1.8	2.5	43.367
2800	1.5	2.0	34.994
2900	1.7	2.3	40.356
3000	1.6	2.2	38.267
3100	1.5	2.0	35.212
3200	1.0	1.3	22.886

PR/PH 2.289

PR/1700 .646

PH/1800 .324

SUM OF THE N-ALKANES 1600-3200 / PR+PH 8.401

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TABLE 3-e CONT.'D

NAME ----	PERCENT COMPOSITION 1100-3200	PERCENTAGE OF 1600-3200	COMPONENT WEIGHT IN UG.
1100	0.0		0.000
1150	0.0		0.000
1200	0.0		0.000
1253	2.1		21.397
1300	4.6		45.588
1356	4.1		40.590
1400	7.1		71.154
1440	2.3		22.595
1500	8.6		85.767
1551	2.0		20.139
1600	8.3	12.1	83.285
1670	4.9	7.1	49.376
1700	7.6	11.0	76.273
1780	2.2	3.2	21.815
1800	6.7	9.7	66.674
1851	2.4	3.4	23.647
1900	5.8	8.3	57.575
2000	5.0	7.2	49.930
2100	4.3	6.2	42.600
2200	3.7	5.4	37.026
2300	3.1	4.5	31.220
2400	2.7	3.9	26.653
2500	2.0	2.8	19.498
2600	2.1	3.1	21.094
2700	1.7	2.5	17.134
2800	1.4	2.0	14.156
2900	1.6	2.4	16.336
3000	1.5	2.1	14.771
3100	1.3	1.8	12.543
3200	.9	1.3	9.284

PR/PH	2.263
PR/1700	.647
PH/1800	.327
SUM OF THE N-ALKANES 1600-3200 / PR+PH	8.373

TABLE 3.e CONT.'D

NAME	PERCENT COMPOSITION 1100-3200	PERCENTAGE OF 1600-3200	COMPONENT WEIGHT IN UG.
1100	0.0		0.000
1150	0.0		0.000
1200	0.0		0.000
1253	0.0		0.000
1300	3.5		37.355
1356	3.6		38.127
1400	6.8		72.123
1440	2.3		23.747
1500	8.8		92.218
1551	2.2		22.943
1600	8.8	12.1	92.974
1670	5.3	7.2	55.410
1700	8.2	11.2	85.892
1780	2.3	3.2	24.646
1800	7.1	9.8	75.110
1851	2.5	3.4	25.913
1900	6.1	8.4	64.216
2000	5.0	6.9	53.179
2100	4.2	5.8	44.724
2200	3.9	5.4	41.152
2300	3.4	4.6	35.540
2400	2.8	3.8	29.421
2500	2.1	2.9	22.488
2600	2.2	3.1	23.648
2700	1.8	2.5	18.950
2800	1.5	2.0	15.579
2900	1.5	2.0	15.626
3000	1.6	2.1	16.477
3100	1.5	2.1	15.822
3200	1.0	1.4	10.426

PR/PH 2.248

PR/1700 .645

PH/1800 .328

SUM OF THE N-ALKANES 1600-3200 / PR+PH 8.259

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TABLE 3.e CONT.'D

```
NAME          PERCENT COMPOSITION              PERCENTAGE OF         COMPONENT
----              1100-3200                      1600-3200        WEIGHT IN UG.

1100           0.0                                                      0.000
1150           0.0                                                      0.000
1200           0.0                                                      0.000
1253           0.0                                                      0.000
1300           0.0                                                      0.000
1356           4.0                                                     49.923
1400           7.4                                                     93.207
1440           3.7                                                     46.400
1500           8.8                                                    109.762
1551           3.3                                                     40.780
1600           8.9                                 12.3               112.034
1670           5.3                                  7.3                66.325
1700           8.0                                 11.0               100.749
1780           2.2                                  3.0                27.705
1800           7.0                                  9.7                88.207
1851           2.5                                  3.4                31.454
1900           6.4                                  8.8                80.516
2000           5.1                                  7.0                63.431
2100           4.3                                  5.8                53.265
2200           3.9                                  5.3                48.534
2300           3.3                                  4.5                40.887
2400           2.7                                  3.8                34.284
2500           2.2                                  3.0                27.028
2600           2.2                                  3.0                27.138
2700           1.8                                  2.5                22.642
2800           1.5                                  2.1                19.293
2900           1.5                                  2.1                18.844
3000           1.5                                  2.1                19.002
3100           1.5                                  2.0                18.322
3200           1.0                                  1.4                12.344

PR/PH                            2.394

PR/1700                           .658

PH/1800                           .314

SUM OF THE N-ALKANES 1600-3200 / PR+PH     8.365
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TABLE 3.e CONT.'D

```
NAME        PERCENT COMPOSITION          PERCENTAGE OF         COMPONENT
----            1100-3200                  1600-3200         WEIGHT IN UG.

1100               0.0                                          0.000
1150               0.0                                          0.000
1200               0.0                                          0.000
1253               0.0                                          0.000
1300               9.0                                         95.457
1356               6.1                                         64.579
1400               8.9                                         94.293
1440               2.4                                         26.005
1500               8.8                                         94.080
1551               2.0                                         21.068
1600               8.0                          12.7           84.759
1670               4.6                           7.3           48.483
1700               6.9                          11.0           73.593
1780               2.0                           3.1           20.999
1800               6.1                           9.7           64.621
1851               2.1                           3.4           22.703
1900               5.3                           8.4           56.295
2000               4.3                           6.8           45.795
2100               3.6                           5.8           38.484
2200               3.4                           5.4           35.822
2300               2.9                           4.5           30.385
2400               2.4                           3.8           25.387
2500               2.0                           3.2           21.334
2600               1.9                           3.1           20.418
2700               1.5                           2.4           16.298
2800               1.3                           2.1           13.770
2900               1.3                           2.0           13.504
3000               1.3                           2.1           13.940
3100               1.2                           1.9           12.924
3200                .9                           1.4            9.095

PR/PH                         2.309

PR/1700                        .659

PH/1800                        .325

SUM OF THE N-ALKANES 1600-3200 / PR+PH     8.296
```

TABLE 3.e CONT.'D

NAME	PERCENT COMPOSITION 1100-3200	PERCENTAGE OF 1600-3200	COMPONENT WEIGHT IN UG.
1100	0.0		0.000
1150	0.0		0.000
1200	0.0		0.000
1253	0.0		0.000
1300	0.0		0.000
1356	2.7		68.695
1400	4.9		125.149
1440	1.5		38.438
1500	6.6		169.947
1551	3.1		78.203
1600	6.5	8.0	166.527
1670	4.8	5.9	123.548
1700	7.2	8.9	185.494
1780	2.0	2.4	50.431
1800	6.7	8.2	171.615
1851	2.7	3.3	68.418
1900	6.4	7.9	163.717
2000	5.6	6.9	142.636
2100	4.9	6.0	125.248
2200	4.5	5.5	114.663
2300	4.4	5.5	113.608
2400	3.7	4.6	95.744
2500	3.2	3.9	81.954
2600	3.1	3.9	80.580
2700	2.7	3.3	68.545
2800	2.1	2.6	53.490
2900	3.2	4.0	82.699
3000	2.8	3.5	72.886
3100	2.9	3.6	74.710
3200	1.7	2.1	43.843

PR/PH 2.450

PR/1700 .666

PH/1800 .294

SUM OF THE N-ALKANES 1600-3200 / PR+PH 10.564

TABLE 3.e CONT.'D

```
NAME          PERCENT COMPOSITION            PERCENTAGE OF          COMPONENT
----              1100-3200                    1600-3200          WEIGHT IN UG.

1100                 0.0                                               0.000
1150                 0.0                                               0.000
1200                 0.0                                               0.000
1253                 0.0                                               0.000
1300                 0.0                                               0.000
1356                 0.0                                               0.000
1400                 0.0                                               0.000
1440                 0.0                                               0.000
1500                  .7                                               1.772
1551                 0.0                                               0.000
1600                  .6                              .6               1.607
1670                  .8                              .8               2.041
1700                  .9                              .9               2.450
1780                 1.1                             1.1               2.882
1800                 3.2                             3.2               8.563
1851                 1.8                             1.9               4.939
1900                 6.8                             6.8              18.232
2000                 9.3                             9.3              24.835
2100                 9.9                            10.0              26.603
2200                10.4                            10.5              28.032
2300                 9.3                             9.4              25.023
2400                 8.0                             8.1              21.471
2500                 6.6                             6.6              17.660
2600                 6.7                             6.8              18.055
2700                 5.3                             5.3              14.214
2800                 3.0                             3.0               8.128
2900                 4.3                             4.4              11.622
3000                 4.5                             4.5              11.956
3100                 4.3                             4.3              11.458
3200                 2.5                             2.5               6.748

PR/PH                           .708

PR/1700                         .833

PH/1800                         .337

SUM OF THE N-ALKANES 1600-3200 / PR+PH    52.140
```

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TABLE 3.e CONT.'D

NAME	PERCENT COMPOSITION 1100-3200	PERCENTAGE OF 1600-3200	COMPONENT WEIGHT IN UG.
1100	0.0		0.000
1150	0.0		0.000
1200	0.0		0.000
1253	0.0		0.000
1300	0.0		0.000
1356	0.0		0.000
1400	0.0		0.000
1440	0.0		0.000
1500	0.0		0.000
1551	0.0		0.000
1600	.4	.4	1.131
1670	.9	.9	2.900
1700	1.3	1.3	3.956
1780	1.4	1.4	4.409
1800	4.4	4.4	13.377
1851	2.3	2.3	7.136
1900	8.0	8.0	24.471
2000	9.7	9.7	29.654
2100	9.6	9.6	29.501
2200	10.0	10.0	30.693
2300	8.7	8.7	26.650
2400	7.4	7.4	22.794
2500	6.0	6.0	18.488
2600	6.2	6.2	18.850
2700	4.9	4.9	15.051
2800	4.1	4.1	12.618
2900	4.2	4.2	12.775
3000	4.1	4.1	12.704
3100	3.6	3.6	10.887
3200	2.7	2.7	8.309

PR/PH	.658
PR/1700	.733
PH/1800	.330
SUM OF THE N-ALKANES 1600-3200 / PR+PH	39.938

TABLE 3.e CONT.'D

Summary for Cruise 5 succession:
B. Aromatic Fraction Distribution for All Samples

Sequence	Sample Number	Treatment (Days)
*1	511	(RUAG-1), 0
2	512	(RUAG-2), 0
3	517	(RUAG-7), 88
4	518	(RUAG-8), 88
5	523	(RUAJ-3), 88
6	524	(RUAJ-4), 88
7	533	(RUAL-3), 88
3	534	(RUAL-4), 88
9	513	(RUAG-3), Sterile Weathering Control (88-day)
10	514	(RUAG-4), Sterile Weathering Control (88-day)
11	51(11)	(RUAH-11), 0
12	51(12)	(RUAH-12), 0
13	519	(RUAH-9), 88
14	51(10)	(RUAH-10),88
15	525	(RUAK-5), 88
16	526	(RUAK-6), 88
17	535	(RUAM-5), 88
18	536	(RUAM-6), 88
19	51(13)	(RUAH-13), Sterile Weathering Control (88-day)
20	51(14)	(RUAH-14), Sterile Weathering Control (88-day)

* Samples 1-10 were treated with 0.5% SLC Oil. All others were treated with 0.1% SLC Oil.

RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUAG, REPL NO. 1

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	6.4	78.286
1870	14.7	179.548
1910	7.4	90.960
1980	8.3	100.795
2020	18.4	224.740
2060	3.9	47.849
2080	3.1	37.581
2110	2.4	29.730
2130	13.0	158.183
2170	4.8	58.515
2210	4.0	48.738
2220	.6	7.514
2240	1.8	21.727
2290	.8	9.317
2310	1.8	21.556
2430	5.4	66.381
2520	3.3	39.851

TABLE 3.e CONT.'D

RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE

TABLE 3.e CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	6.3	95.847
1870	14.4	218.243
1910	7.1	106.908
1980	8.3	126.064
2020	18.1	274.088
2060	3.9	59.120
2080	3.1	47.646
2110	2.2	33.447
2130	13.2	199.985
2170	5.0	75.891
2210	4.3	64.572
2220	.6	9.017
2240	1.8	26.659
2290	.8	11.667
2310	1.9	28.213
2430	5.7	86.009
2520	3.4	51.980

RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUAG, REPL NO. 7

TABLE 3.e CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	3.7	37.910
1870	12.1	124.563
1910	5.4	55.921
1980	8.1	83.065
2020	17.8	183.689
2060	4.0	40.887
2080	3.6	37.098
2110	2.7	28.244
2130	14.3	147.031
2170	5.5	56.501
2210	4.9	50.211
2220	.6	6.280
2240	2.8	28.431
2290	.8	7.926
2310	2.3	24.126
2430	7.0	71.719
2520	4.5	46.662

TABLE 3.e CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	5.4	57.812
1870	13.5	143.134
1910	6.5	69.135
1980	8.1	85.783
2020	18.0	190.492
2060	3.9	41.801
2080	3.4	35.561
2110	2.7	28.244
2130	13.4	142.630
2170	5.0	53.489
2210	4.3	45.587
2220	.7	7.514
2240	2.1	22.360
2290	.7	7.952
2310	2.1	22.097
2430	6.1	64.991
2520	4.0	42.551

TABLE 3.e CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	3.0	28.718
1870	13.2	127.025
1910	6.0	58.205
1980	8.5	82.267
2020	18.8	181.068
2060	3.9	37.196
2080	3.4	33.237
2110	2.9	28.244
2130	14.6	140.660
2170	5.2	50.119
2210	4.5	43.079
2220	.8	7.514
2240	2.0	19.437
2290	.7	6.992
2310	1.9	18.240
2430	6.8	65.117
2520	3.8	36.785

TABLE 3.e CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	3.2	28.920
1870	11.6	105.682
1910	5.1	46.312
1980	8.3	75.353
2020	18.1	164.622
2060	3.9	35.540
2080	3.6	32.812
2110	3.1	28.244
2130	14.7	133.414
2170	5.6	51.139
2210	5.1	46.096
2220	.8	7.514
2240	2.2	19.943
2290	.8	7.469
2310	2.3	20.618
2430	7.2	65.427
2520	4.5	40.617

TABLE 3.e CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	1.8	19.404
1870	11.4	122.615
1910	4.5	48.862
1980	8.4	90.795
2020	18.0	194.618
2060	3.7	40.033
2080	3.6	38.854
2110	2.8	29.730
2130	15.7	169.360
2170	5.8	62.147
2210	4.9	53.207
2220	.7	8.015
2240	3.7	39.575
2290	.8	8.589
2310	2.0	22.009
2430	7.7	83.193
2520	4.5	48.519

TABLE 3.e CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	5.5	86.489
1870	13.7	215.270
1910	6.8	106.738
1980	8.2	129.157
2020	18.0	283.925
2060	4.0	62.861
2080	3.2	50.057
2110	2.1	33.447
2130	13.4	210.695
2170	5.1	80.679
2210	4.4	68.495
2220	.6	9.017
2240	2.0	31.276
2290	.7	11.383
2310	2.0	31.212
2430	5.8	91.300
2520	4.6	71.609

TABLE 3.e CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	0.0	0.000
1870	9.0	48.458
1910	0.0	0.000
1980	8.0	43.202
2020	14.6	78.353
2060	3.1	16.916
2080	4.8	25.652
2110	3.5	18.582
2130	16.7	89.672
2170	6.8	36.280
2210	6.3	33.982
2220	1.3	6.763
2240	2.2	11.980
2290	1.3	6.868
2310	4.4	23.615
2430	11.3	60.911
2520	6.7	36.030

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TABLE 3-e CONT.'D

```
 NAME     PERCENT COMPOSITION       COMPONENT WEIGHT IN UG.


  1750                0.0                  0.000

  1870                9.3                 93.122

  1910                2.4                 23.882

  1980                8.4                 84.212

  2020               16.3                164.323

  2060                3.6                 35.933

  2080                4.1                 41.764

  2110                3.1                 31.217

  2130               16.3                163.964

  2170                6.3                 63.510

  2210                5.7                 57.479

  2220                 .7                  7.514

  2240                2.4                 24.048

  2290                 .9                  8.563

  2310                2.8                 27.710

  2430                9.3                 93.830

  2520                8.5                 85.596
```

TABLE 3.e CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	0.0	0.000
1870	4.4	.260
1910	4.0	.236
1980	3.8	.224
2020	28.5	1.680
2060	6.3	.371
2080	0.0	0.000
2110	0.0	0.000
2130	15.1	.892
2170	6.7	.398
2210	6.0	.351
2220	0.0	0.000
2240	6.9	.405
2290	0.0	0.000
2310	0.0	0.000
2430	11.0	.646
2520	7.3	.432

TABLE 3.e CONT.'D

```
NAME     PERCENT COMPOSITION       COMPONENT WEIGHT IN UG.

 1750                 0.0                    0.000

 1870                 0.0                    0.000

 1910                 0.0                    0.000

 1980                 3.0                     .283

 2020                19.4                    1.807

 2060                 5.1                     .478

 2080                 4.6                     .427

 2110                 1.6                     .147

 2130                16.0                    1.495

 2170                11.2                    1.048

 2210                 7.8                     .729

 2220                 1.5                     .143

 2240                 5.2                     .485

 2290                 1.6                     .145

 2310                 3.0                     .281

 2430                12.0                    1.125

 2520                 8.0                     .746
```

TABLE 3.e CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	0.0	0.000
1870	7.4	.826
1910	1.9	.216
1980	4.9	.545
2020	16.4	1.836
2060	4.0	.452
2080	4.2	.470
2110	1.3	.151
2130	13.8	1.550
2170	9.6	1.077
2210	6.7	.748
2220	1.3	.143
2240	4.6	.511
2290	1.3	.145
2310	4.0	.451
2430	11.3	1.267
2520	7.3	.819

TABLE 3.e CONT.'D

```
NAME      PERCENT COMPOSITION      COMPONENT WEIGHT IN UG.

1750                I                      0.000
1870                I                      0.000
1910                I                      0.000
1980                I                      0.000
2020                I                      0.000
2060                I                      0.000
2080                I                      0.000
2110                I                      0.000
2130                I                      0.000
2170                I                      0.000
2210                I                      0.000
2220                I                      0.000
2240                I                      0.000
2290                I                      0.000
2310                I                      0.000
2430                I                      0.000
2520                I                      0.000
```

TABLE 3.e CONT.'D

```
NAME     PERCENT COMPOSITION      COMPONENT WEIGHT IN UG.

 1750              0.0                   0.000

 1870              0.0                   0.000

 1910              0.0                   0.000

 1980              0.0                   0.000

 2020              0.0                   0.000

 2060              0.0                   0.000

 2080              0.0                   0.000

 2110              0.0                   0.000

 2130             15.0                    .385

 2170             10.2                    .262

 2210              6.9                    .175

 2220              0.0                   0.000

 2240              7.0                    .178

 2290              0.0                   0.000

 2310             11.1                    .284

 2430             30.4                    .778

 2520             19.5                    .498
```

TABLE 3.e CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	0.0	0.000
1870	0.0	0.000
1910	0.0	0.000
1980	0.0	0.000
2020	19.9	1.063
2060	4.7	.251
2080	0.0	0.000
2110	0.0	0.000
2130	17.9	.958
2170	11.5	.615
2210	7.8	.415
2220	0.0	0.000
2240	6.2	.332
2290	0.0	0.000
2310	4.5	.243
2430	16.7	.894
2520	10.7	.572

TABLE 3.e CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	0.0	0.000
1870	8.9	1.460
1910	12.3	2.012
1980	5.8	.941
2020	16.1	2.629
2060	6.4	1.045
2080	4.0	.659
2110	1.1	.185
2130	7.5	1.233
2170	3.0	.493
2210	3.9	.641
2220	0.0	0.000
2240	13.5	2.206
2290	0.0	0.000
2310	1.4	.235
2430	6.9	1.132
2520	9.1	1.481

TABLE 3.e CONT.'D

```
NAME     PERCENT COMPOSITION        COMPONENT WEIGHT IN UG.

 1750                8.0                    1.540
 1870                4.1                     .792
 1910                4.4                     .841
 1980               16.8                    3.246
 2020                3.4                     .648
 2060                0.0                    0.000
 2080                0.0                    0.000
 2110                0.0                    0.000
 2130               22.4                    4.318
 2170                7.3                    1.408
 2210                6.5                    1.262
 2220                0.0                    0.000
 2240                4.6                     .891
 2290                0.0                    0.000
 2310                4.2                     .818
 2430               12.4                    2.401
 2520                5.9                    1.139
```

TABLE 3.e CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	I	0.000
1870	I	0.000
1910	I	0.000
1980	I	0.000
2020	I	0.000
2060	I	0.000
2080	I	0.000
2110	I	0.000
2130	I	0.000
2170	I	0.000
2210	I	0.000
2220	I	0.000
2240	I	0.000
2290	I	0.000
2310	I	0.000
2430	I	0.000
2520	I	0.000

TABLE 3.e CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	I	0.000
1870	I	0.000
1910	I	0.000
1980	I	0.000
2020	I	0.000
2060	I	0.000
2080	I	0.000
2110	I	0.000
2130	I	0.000
2170	I	0.000
2210	I	0.000
2220	I	0.000
2240	I	0.000
2290	I	0.000
2310	I	0.000
2430	I	0.000
2520	I	0.000

TABLE 3.f

Summary for Cruise 6 succession:
A. Saturated Hydrocarbon Distribution for All Samples

Sequence	Sample Number	Treatment (Days)
1	615	(RUAN-5), 0
2	616	(RUAN-6), 0
3	611	(RUAN-1), 81
4	612	(RUAN-2), 81
5	621	(RUAD-1), 81
6	622	(RUAD-2), 81
7	631	(RUAP-1), 81
8	632	(RUAP-2), 81
9	613	(RUAN-3), Sterile Weathering Control (81-day)
10	614	(RUAN-4), Sterile Weathering Control (81-day)

TABLE 3.f CONT.'D

```
NAME         PERCENT COMPOSITION        PERCENTAGE OF        COMPONENT
----             1100-3200                1600-3200         WEIGHT IN UG.

1100                0.0                                         0.000
1150                0.0                                         0.000
1200                0.0                                         0.000
1253                0.0                                         0.000
1300               10.1                                       258.289
1356                2.8                                        71.166
1400                9.6                                       243.677
1440                2.5                                        64.177
1500                9.7                                       247.766
1551                2.1                                        53.002
1600                8.3                          13.2         212.357
1670                4.6                           7.4         118.477
1700                7.0                          11.1         178.638
1780                1.8                           2.9          46.318
1800                6.0                           9.5         153.834
1851                2.2                           3.5          56.645
1900                5.4                           8.5         137.771
2000                4.4                           6.9         111.035
2100                3.8                           5.9          95.642
2200                3.3                           5.2          84.056
2300                2.8                           4.4          71.516
2400                2.4                           3.8          60.760
2500                2.0                           3.2          51.287
2600                1.9                           3.0          48.916
2700                1.5                           2.4          38.662
2800                 .9                           1.4          22.270
2900                1.3                           2.0          32.339
3000                1.5                           2.4          38.093
3100                1.2                           1.9          30.588
3200                 .9                           1.4          22.483

PR/PH                           2.558

PR/1700                          .663

PH/1800                          .301

SUM OF THE N-ALKANES 1600-3200 / PR+PH     8.436
```

TABLE 3.f CONT.'D

```
NAME         PERCENT COMPOSITION          PERCENTAGE OF         COMPONENT
----              1100-3200                 1600-3200         WEIGHT IN UG.

1100             0.0                                               0.000
1150             0.0                                               0.000
1200             0.0                                               0.000
1253             6.6                                             167.393
1300            10.1                                             254.850
1356             6.7                                             168.190
1400             8.8                                             222.044
1440             2.3                                              58.239
1500             8.4                                             212.423
1551             1.7                                              43.775
1600             7.3                            13.2             184.482
1670             4.1                             7.4             103.416
1700             6.2                            11.2             156.922
1780             1.6                             2.9              41.344
1800             5.3                             9.5             133.516
1851             1.8                             3.3              46.336
1900             4.8                             8.7             121.943
2000             3.8                             6.8              95.829
2100             3.1                             5.7              79.581
2200             3.0                             5.3              74.756
2300             2.5                             4.4              62.212
2400             2.0                             3.7              51.748
2500             1.8                             3.3              46.131
2600             1.6                             3.0              41.668
2700             1.3                             2.4              33.036
2800             1.1                             2.0              27.655
2900             1.1                             1.9              26.586
3000             1.2                             2.1              29.762
3100             1.0                             1.8              25.682
3200              .8                             1.4              19.433

PR/PH                           2.501

PR/1700                          .659

PH/1800                          .310

SUM OF THE N-ALKANES 1600-3200 / PR+PH     8.365
```

TABLE 3.f CONT.'D

NAME	PERCENT COMPOSITION 1100-3200	PERCENTAGE OF 1600-3200	COMPONENT WEIGHT IN UG.
1100	0.0		0.000
1150	0.0		0.000
1200	0.0		0.000
1253	0.0		0.000
1300	4.9		376.875
1356	4.1		312.806
1400	5.9		454.101
1440	4.1		318.856
1500	7.1		545.540
1551	4.1		315.092
1600	6.5	9.3	503.852
1670	4.4	6.3	339.446
1700	6.4	9.2	495.606
1780	1.8	2.6	137.614
1800	5.6	8.1	435.175
1851	2.7	3.9	210.104
1900	5.3	7.6	410.275
2000	4.6	6.5	351.931
2100	4.3	6.1	328.291
2200	4.0	5.7	308.002
2300	3.8	5.4	293.397
2400	3.6	5.2	280.666
2500	2.6	3.8	203.183
2600	2.8	4.0	213.553
2700	2.3	3.3	179.656
2800	1.8	2.6	140.058
2900	2.1	3.0	160.999
3000	1.9	2.8	149.039
3100	1.7	2.4	130.523
3200	1.5	2.2	117.570

PR/PH 2.467

PR/1700 .685

PH/1800 .316

SUM OF THE N-ALKANES 1600-3200 / PR+PH 9.856

TABLE 3.f CONT.'D

```
NAME       PERCENT COMPOSITION          PERCENTAGE OF        COMPONENT
----            1100-3200                 1600-3200        WEIGHT IN UG.

1100             0.0                                            0.000
1150             0.0                                            0.000
1200             0.0                                            0.000
1253             4.8                                          147.545
1300             7.2                                          222.198
1356             5.2                                          160.067
1400             8.3                                          257.110
1440             2.3                                           72.466
1500             8.8                                          272.801
1551             1.9                                           59.679
1600             8.0                            13.0          246.156
1670             4.5                             7.3          139.193
1700             6.9                            11.3          214.174
1780             1.8                             2.9           55.524
1800             5.9                             9.6          182.476
1851             2.1                             3.4           63.563
1900             5.2                             8.4          159.431
2000             4.2                             6.8          129.290
2100             3.5                             5.7          108.021
2200             3.2                             5.2           98.354
2300             2.8                             4.5           85.818
2400             2.3                             3.8           71.211
2500             1.9                             3.1           58.649
2600             1.9                             3.0           57.439
2700             1.5                             2.4           45.439
2800             1.2                             2.0           38.198
2900             1.2                             2.0           37.923
3000             1.3                             2.1           39.483
3100             1.2                             1.9           36.854
3200              .9                             1.4           27.113

PR/PH                         2.507

PR/1700                        .650

PH/1800                        .304

SUM OF THE N-ALKANES 1600-3200 / PR+PH    8.402
```

TABLE 3.f CONT.'D

```
NAME        PERCENT COMPOSITION         PERCENTAGE OF           COMPONENT
----            1100-3200                 1600-3200           WEIGHT IN UG.

1100              0.0                                             0.000
1150              0.0                                             0.000
1200              0.0                                             0.000
1253              6.5                                           166.154
1300              8.4                                           214.936
1356              6.6                                           167.286
1400              8.6                                           218.739
1440              2.2                                            56.356
1500              8.5                                           215.473
1551              1.9                                            49.068
1600              7.4                        13.0               189.632
1670              4.2                         7.3               106.871
1700              6.3                        11.0               160.344
1780              1.7                         2.9                42.315
1800              5.5                         9.6               139.784
1851              2.0                         3.4                50.261
1900              4.8                         8.4               122.781
2000              4.0                         7.0               101.803
2100              3.4                         5.9                85.554
2200              3.0                         5.3                77.639
2300              2.6                         4.5                65.373
2400              2.2                         3.8                55.352
2500              1.8                         3.1                44.842
2600              1.7                         3.0                44.415
2700              1.4                         2.4                35.648
2800              1.2                         2.1                30.607
2900              1.2                         2.0                29.333
3000              1.2                         2.1                30.146
3100              1.1                         1.9                27.107
3200               .8                         1.4                21.047

PR/PH                         2.526

PR/1700                        .667

PH/1800                        .303

SUM OF THE N-ALKANES 1600-3200 / PR+PH      8.455
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TABLE 3.F CONT.'D

```
NAME          PERCENT COMPOSITION          PERCENTAGE OF          COMPONENT
----              1100-3200                  1600-3200          WEIGHT IN UG.

1100                 0.0                                              0.000
1150                 0.0                                              0.000
1200                 0.0                                              0.000
1253                 0.0                                              0.000
1300                 6.2                                            114.998
1356                 5.0                                             92.022
1400                 7.9                                            146.624
1440                 2.4                                             43.603
1500                 8.9                                            165.235
1551                 2.0                                             37.585
1600                 8.4                          12.4              154.768
1670                 4.9                           7.3               90.642
1700                 7.5                          11.1              138.917
1780                 2.0                           3.0               37.818
1800                 6.5                           9.6              119.936
1851                 2.2                           3.3               40.957
1900                 5.8                           8.6              107.626
2000                 4.7                           6.9               86.175
2100                 3.9                           5.8               71.775
2200                 3.6                           5.3               66.254
2300                 3.1                           4.6               56.861
2400                 2.6                           3.8               47.727
2500                 2.1                           3.1               38.998
2600                 2.1                           3.0               37.902
2700                 1.6                           2.4               30.247
2800                 1.4                           2.1               25.764
2900                 1.4                           2.0               25.173
3000                 1.4                           2.1               26.492
3100                 1.5                           2.2               26.951
3200                  .9                           1.3               16.049

PR/PH                             2.397

PR/1700                            .652

PH/1800                            .315

SUM OF THE N-ALKANES 1600-3200 / PR+PH      8.389
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TABLE 3.f CONT.'D

```
NAME           PERCENT COMPOSITION          PERCENTAGE OF          COMPONENT
----                1100-3200                  1600-3200         WEIGHT IN UG.

1100                  0.0                                            0.000
1150                  0.0                                            0.000
1200                  0.0                                            0.000
1253                  0.0                                            0.000
1300                  0.0                                            0.000
1356                  4.8                                          314.303
1400                  6.4                                          419.334
1440                  1.2                                           82.009
1500                  7.3                                          477.156
1551                  3.0                                          199.311
1600                  6.0                          7.8             397.172
1670                  4.6                          5.9             302.047
1700                  7.0                          9.1             460.995
1780                  1.9                          2.4             122.890
1800                  6.3                          8.1             412.007
1851                  3.0                          3.9             199.195
1900                  5.9                          7.6             387.900
2000                  5.1                          6.6             336.300
2100                  4.8                          6.2             316.194
2200                  4.6                          5.9             302.300
2300                  4.4                          5.7             289.861
2400                  4.2                          5.4             273.417
2500                  3.1                          4.0             201.006
2600                  3.2                          4.2             213.060
2700                  2.6                          3.3             169.696
2800                  2.1                          2.8             139.844
2900                  2.7                          3.4             175.347
3000                  2.1                          2.7             139.328
3100                  2.2                          2.8             142.101
3200                  1.6                          2.0             102.846

PR/PH                             2.458

PR/1700                            .655

PH/1800                            .298

SUM OF THE N-ALKANES 1600-3200 / PR+PH    10.494
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TABLE 3.f CONT.'D

NAME ----	PERCENT COMPOSITION 1100-3200	PERCENTAGE OF 1600-3200	COMPONENT WEIGHT IN UG.
1100	0.0		0.000
1150	0.0		0.000
1200	0.0		0.000
1253	6.5		136.193
1300	8.2		171.759
1356	5.5		114.760
1400	7.8		163.352
1440	2.2		45.917
1500	8.2		171.595
1551	1.7		36.231
1600	7.5	12.6	156.004
1670	4.3	7.2	89.639
1700	6.6	11.1	137.341
1780	1.7	2.9	36.251
1800	5.7	9.6	118.807
1851	2.0	3.3	41.381
1900	5.2	8.7	108.057
2000	4.1	6.9	85.807
2100	3.4	5.8	71.494
2200	3.1	5.2	64.545
2300	2.7	4.5	55.976
2400	2.2	3.8	46.697
2500	2.0	3.4	41.666
2600	1.8	3.0	37.815
2700	1.4	2.4	29.994
2800	1.2	2.0	25.242
2900	1.2	1.9	24.093
3000	1.4	2.3	29.130
3100	1.2	2.0	24.515
3200	.9	1.5	18.368

PR/PH	2.473
PR/1700	.653
PH/1800	.305
SUM OF THE N-ALKANES 1600-3200 / PR+PH	8.544

TABLE 3.f CONT.'D

NAME ----	PERCENT COMPOSITION 1100-3200	PERCENTAGE OF 1600-3200	COMPONENT WEIGHT IN UG.
1100	0.0		0.000
1150	0.0		0.000
1200	0.0		0.000
1253	5.5		144.254
1300	8.6		225.754
1356	5.0		131.851
1400	8.1		212.871
1440	2.2		58.259
1500	8.8		229.766
1551	1.9		48.688
1600	7.7	12.8	200.369
1670	4.4	7.3	114.883
1700	6.7	11.1	174.363
1780	1.7	2.9	44.992
1800	5.7	9.5	149.497
1851	2.1	3.5	54.564
1900	5.3	8.8	137.910
2000	4.1	6.9	108.118
2100	3.5	5.9	92.377
2200	3.2	5.3	83.169
2300	2.7	4.5	70.289
2400	2.3	3.8	59.545
2500	1.9	3.1	49.116
2600	1.9	3.1	48.449
2700	1.5	2.4	38.056
2800	.9	1.4	22.331
2900	1.2	2.0	31.450
3000	1.2	2.1	32.523
3100	1.2	1.9	30.475
3200	.9	1.5	23.526

PR/PH 2.553

PR/1700 .659

PH/1800 .301

SUM OF THE N-ALKANES 1600-3200 / PR+PH 8.454

TABLE 3.f CONT.'D

```
NAME          PERCENT COMPOSITION               PERCENTAGE OF           COMPONENT
----              1100-3200                       1600-3200           WEIGHT IN UG.

1100                0.0                                                    0.000
1150                0.0                                                    0.000
1200                0.0                                                    0.000
1253                0.0                                                    0.000
1300                0.0                                                    0.000
1356                4.3                                                  290.726
1400                6.2                                                  423.140
1440                1.5                                                   99.819
1500                7.3                                                  496.348
1551                3.1                                                  209.544
1600                6.3                                  8.1             429.893
1670                4.6                                  5.9             313.728
1700                7.2                                  9.3             491.164
1780                1.8                                  2.4             124.721
1800                6.4                                  8.2             436.753
1851                3.1                                  4.0             209.943
1900                6.2                                  7.9             420.429
2000                5.3                                  6.9             364.107
2100                4.7                                  6.0             319.028
2200                3.9                                  5.0             265.564
2300                4.5                                  5.8             307.711
2400                4.3                                  5.5             291.582
2500                2.8                                  3.5             188.284
2600                3.3                                  4.3             225.864
2700                2.6                                  3.3             174.281
2800                2.3                                  2.9             154.261
2900                2.7                                  3.5             187.493
3000                2.2                                  2.9             152.812
3100                2.1                                  2.7             144.970
3200                1.5                                  1.9             103.338

PR/PH                           2.515

PR/1700                          .639

PH/1800                          .286

SUM OF THE N-ALKANES 1600-3200 / PR+PH    10.623
```

TABLE 3.f CONT.'D

Summary for Cruise 6 succession:
B. Aromatic Fraction Distribution for All Samples

Sequence	Sample Number	Treatment (Days)
1	615	(RUAN-5), 0
2	616	(RUAN-5), 0
3	611	(RUAN-1), 81
4	612	(RUAN-2), 81
5	621	(RUAD-1), 81
6	622	(RUAD-2), 81
7	631	(RUAD-1), 81
8	632	(RUAD-2), 81
9	613	(RUAN-3), Sterile Weathering Control (81-day)
10	614	(RUAN-4), Sterile Weathering Control (81-day)

TABLE 3.f CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	0.0	0.000
1870	6.9	1.709
1910	5.9	1.456
1980	4.5	1.112
2020	24.6	6.087
2060	6.0	1.494
2080	2.6	.655
2110	1.8	.439
2130	11.1	2.743
2170	7.6	1.894
2210	5.2	1.287
2220	1.4	.345
2240	4.2	1.048
2290	1.5	.372
2310	1.3	.323
2430	8.3	2.068
2520	7.1	1.749

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TABLE 3.f CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	0.0	0.000
1870	0.0	0.000
1910	.8	.134
1980	4.3	.698
2020	18.8	3.089
2060	5.1	.832
2080	4.6	.761
2110	2.0	.330
2130	15.2	2.494
2170	11.3	1.862
2210	7.6	1.241
2220	1.2	.201
2240	5.2	.856
2290	1.7	.276
2310	3.2	.527
2430	11.1	1.829
2520	7.8	1.276

TABLE 3.f CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	0.0	0.000
1870	5.9	4.525
1910	4.2	3.192
1980	8.0	6.107
2020	21.9	16.842
2060	4.6	3.522
2080	2.8	2.133
2110	0.0	0.000
2130	20.3	15.563
2170	7.7	5.895
2210	6.0	4.612
2220	.2	.158
2240	2.4	1.870
2290	.5	.373
2310	1.9	1.450
2430	8.4	6.460
2520	5.3	4.082

TABLE 3.f CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	0.0	0.000
1870	6.9	2.218
1910	5.6	1.793
1980	6.7	2.159
2020	25.0	8.065
2060	6.2	2.001
2080	3.9	1.257
2110	2.3	.748
2130	11.4	3.674
2170	9.2	2.949
2210	5.6	1.802
2220	1.1	.368
2240	3.2	1.040
2290	1.3	.405
2310	3.0	.974
2430	6.5	2.089
2520	2.1	.668

TABLE 3.f CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	0.0	0.000
1870	9.3	2.365
1910	7.5	1.916
1980	5.3	1.353
2020	26.3	6.722
2060	6.0	1.540
2080	2.5	.633
2110	2.0	.509
2130	10.7	2.733
2170	7.4	1.887
2210	4.6	1.178
2220	1.6	.402
2240	3.2	.809
2290	1.3	.333
2310	1.2	.299
2430	7.0	1.792
2520	4.2	1.069

TABLE 3.f CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	0.0	0.000
1870	0.0	0.000
1910	0.0	0.000
1980	4.6	.388
2020	11.8	.995
2060	3.1	.262
2080	5.3	.447
2110	1.7	.141
2130	15.9	1.346
2170	11.6	.983
2210	8.1	.680
2220	1.4	.122
2240	6.5	.546
2290	1.5	.131
2310	6.9	.583
2430	14.5	1.224
2520	7.1	.599

TABLE 3.f CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	0.0	0.000
1870	5.9	3.748
1910	3.8	2.413
1980	7.3	4.608
2020	21.3	13.509
2060	4.4	2.763
2080	2.5	1.590
2110	0.0	0.000
2130	20.9	13.223
2170	8.0	5.100
2210	5.8	3.692
2220	.2	.123
2240	2.5	1.583
2290	.5	.332
2310	1.5	.962
2430	9.7	6.143
2520	5.6	3.576

TABLE 3.f CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	0.0	0.000
1870	8.2	1.361
1910	6.4	1.060
1980	6.1	1.014
2020	24.4	4.029
2060	5.9	.982
2080	3.7	.607
2110	2.0	.326
2130	11.0	1.822
2170	8.3	1.367
2210	5.1	.835
2220	.9	.156
2240	4.3	.703
2290	1.2	.199
2310	3.3	.549
2430	6.9	1.133
2520	2.3	.373

TABLE 3.f CONT.'D

```
NAME     PERCENT COMPOSITION        COMPONENT WEIGHT IN UG.

 1750                0.0                     0.000
 1870                6.2                     1.097
 1910                6.0                     1.064
 1980                4.2                      .732
 2020               25.1                     4.414
 2060                6.1                     1.068
 2080                2.8                      .489
 2110                1.8                      .317
 2130               11.8                     2.074
 2170                8.1                     1.422
 2210                4.9                      .867
 2220                1.6                      .277
 2240                3.9                      .686
 2290                1.5                      .265
 2310                2.5                      .438
 2430                8.5                     1.502
 2520                5.1                      .903
```

TABLE 3.f CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	.5	.285
1870	4.8	2.997
1910	3.2	2.006
1980	6.1	3.841
2020	19.8	12.462
2060	4.1	2.594
2080	2.5	1.560
2110	0.0	0.000
2130	21.3	13.385
2170	8.4	5.293
2210	6.1	3.849
2220	.2	.127
2240	1.9	1.166
2290	.3	.207
2310	3.9	2.432
2430	10.8	6.767
2520	6.1	3.836

TABLE 3.g

Summary for Cruise 7 succession:
A. Saturated Hydrocarbon Distribution for All Samples

Sequence	Sample Number	Treatment (Days)
1	711	(RUBA-1), 0
2	712	(RUBA-2), 0
3	723	(RUBA-3),100
4	724	(RUBA-4),100
5	733	(RUBC-3),100
6	734	(RUBC-4),100
7	B711	(RUBD-1), 0
8	B712	(RUBD-2), 0
9	B715	(RUBD-5),100
10	B716	(RUBD-6),100
11	B723	(RUBE-3),100
12	B724	(RUBE-3),100
13	B733	(RUBF-3),100
14	B734	(RUBF-4),100
15	C711(1.0)	(RUBG-1), 0
16	C712(1.0)	(RUBG-2), 0
17	C711(0.5)	(RUBG-3), 0
18	C712(0.5)	(RUBG-4), 0

TABLE 3.8 CONT.'D

```
NAME         PERCENT COMPOSITION          PERCENTAGE OF       COMPONENT
----              1100-3200                 1600-3200         WEIGHT IN UG.

1100                0.0                                           0.000
1150                0.0                                           0.000
1200                0.0                                           0.000
1253                0.0                                           0.000
1300                0.0                                           0.000
1356                4.4                                         331.395
1400                8.2                                         624.442
1440                1.9                                         143.596
1500                7.8                                         591.159
1551                3.1                                         234.546
1600                6.3                        8.5              478.965
1620                1.0                        1.3               74.726
1670                4.4                        5.8              330.956
1700                6.8                        9.2              518.829
1780                1.7                        2.3              128.221
1800                6.1                        8.2              463.153
1851                2.3                        3.1              174.762
1900                5.7                        7.7              434.854
2000                5.1                        6.8              383.460
2100                4.8                        6.5              366.433
2200                3.6                        4.8              270.515
2300                4.0                        5.3              300.143
2400                4.0                        5.3              302.443
2500                3.0                        4.1              229.638
2600                3.4                        4.6              257.648
2700                2.4                        3.3              185.114
2800                2.1                        2.9              162.552
2900                2.6                        3.4              194.886
3000                2.0                        2.6              149.114
3100                1.9                        2.6              146.501
3200                1.4                        1.9              109.229

TOTAL WEIGHT                                                   7587.279

PR/PH                        2.581

PR/1700                       .638

PH/1800                       .277

SUM OF THE N-ALKANES 1600-3200 / PR+PH    10.788
```

TABLE 3.g CONT.'D

NAME ----	PERCENT COMPOSITION 1100-3200	PERCENTAGE OF 1600-3200	COMPONENT WEIGHT IN UG.
1100	0.0		0.000
1150	0.0		0.000
1200	0.0		0.000
1253	0.0		0.000
1300	10.3		280.269
1356	3.2		85.727
1400	9.8		264.748
1440	2.5		69.172
1500	9.3		252.950
1551	1.8		50.077
1600	8.1	12.9	220.049
1620	1.9	2.9	50.430
1670	4.5	7.1	120.927
1700	6.9	11.0	187.787
1780	1.8	2.8	47.744
1800	5.9	9.3	159.805
1851	2.0	3.2	54.239
1900	5.2	8.3	142.025
2000	4.2	6.6	112.822
2100	3.5	5.5	94.082
2200	3.2	5.0	86.228
2300	2.8	4.4	74.643
2400	2.3	3.6	61.845
2500	1.9	3.1	52.449
2600	1.8	2.9	49.950
2700	1.5	2.3	39.431
2800	1.2	2.0	33.726
2900	1.2	2.0	33.432
3000	1.3	2.0	34.296
3100	1.2	1.8	31.563
3200	.9	1.4	23.361
TOTAL WEIGHT			2713.777

PR/PH 2.533

PR/1700 .644

PH/1800 .299

SUM OF THE N-ALKANES 1600-3200 / PR+PH 8.522

TABLE 3.g CONT.'D

```
NAME             PERCENT COMPOSITION        PERCENTAGE OF        COMPONENT
----                 1100-3200                1600-3200        WEIGHT IN UG.

1100                    0.0                                         0.000
1150                    0.0                                         0.000
1200                    2.7                                       109.427
1253                    2.7                                       106.803
1300                    4.2                                       170.032
1356                    4.5                                       181.265
1400                    7.2                                       289.810
1440                    2.6                                       103.847
1500                    8.6                                       344.639
1551                    0.0                                         0.000
1600                    8.6                        12.8           345.175
1620                    2.1                         3.1            83.666
1670                    4.7                         7.0           189.075
1700                    7.8                        11.5           310.906
1780                    1.8                         2.7            72.976
1800                    6.5                         9.7           261.490
1851                    2.2                         3.2            87.239
1900                    6.1                         9.1           245.982
2000                    4.8                         7.1           190.910
2100                    3.9                         5.8           157.870
2200                    3.5                         5.2           140.719
2300                    2.9                         4.3           115.391
2400                    2.4                         3.5            95.003
2500                    1.9                         2.8            76.546
2600                    1.9                         2.8            74.818
2700                    1.4                         2.1            56.460
2800                     .9                         1.3            34.768
2900                    1.1                         1.6            43.917
3000                    1.2                         1.8            47.317
3100                     .9                         1.3            35.284
3200                     .8                         1.2            33.275

TOTAL WEIGHT                                                     4004.613

PR/PH                             2.591

PR/1700                            .608

PH/1800                            .279

SUM OF THE N-ALKANES 1600-3200 / PR+PH     8.647
```

TABLE 3.g CONT.'D

```
NAME           PERCENT COMPOSITION              PERCENTAGE OF        COMPONENT
----               1100-3200                      1600-3200         WEIGHT IN UG.

1100                  0.0                                                0.000
1150                  0.0                                                0.000
1200                  4.1                                              271.912
1253                  4.0                                              260.061
1300                  7.0                                              459.662
1356                  3.9                                              254.633
1400                  8.8                                              578.183
1440                  4.8                                              315.060
1500                  8.0                                              522.141
1551                   .2                                               11.875
1600                  7.8                           13.1               509.782
1620                  2.7                            4.5               175.835
1670                  3.9                            6.6               257.428
1700                  6.5                           11.0               428.486
1780                  1.5                            2.5                98.144
1800                  5.5                            9.2               358.838
1851                  1.3                            2.2                87.286
1900                  5.3                            9.0               348.820
2000                  4.2                            7.0               274.168
2100                  3.3                            5.6               217.687
2200                  3.2                            5.4               208.532
2300                  2.6                            4.4               172.416
2400                  2.2                            3.7               145.420
2500                  1.8                            3.0               118.185
2600                  1.8                            3.0               117.073
2700                  1.3                            2.2                84.141
2800                   .9                            1.5                56.719
2900                  1.0                            1.7                64.654
3000                   .9                            1.6                62.107
3100                   .8                            1.4                52.739
3200                   .8                            1.4                53.605

TOTAL WEIGHT                                                          6565.594

PR/PH                          2.623

PR/1700                         .601

PH/1800                         .274

SUM OF THE N-ALKANES 1600-3200 / PR+PH      9.206
```

TABLE 3.g CONT.'D

```
NAME        PERCENT COMPOSITION        PERCENTAGE OF        COMPONENT
----             1100-3200               1600-3200         WEIGHT IN UG.

1100                0.0                                         0.000
1150                0.0                                         0.000
1200                6.3                                       323.670
1253                4.6                                       236.452
1300                7.2                                       372.106
1356                5.5                                       281.363
1400                7.7                                       397.492
1440                2.5                                       130.533
1500                7.5                                       388.107
1551                0.0                                         0.000
1600                7.7                      13.2             397.709
1620                2.8                       4.8             144.002
1670                4.2                       7.2             217.337
1700                6.7                      11.4             344.573
1780                1.6                       2.7              80.859
1800                5.6                       9.5             286.108
1851                1.4                       2.3              69.490
1900                5.1                       8.6             260.319
2000                4.0                       6.8             204.220
2100                3.0                       5.1             152.536
2200                2.9                       4.9             148.348
2300                2.5                       4.2             127.622
2400                2.1                       3.5             105.802
2500                1.6                       2.8              83.163
2600                1.7                       2.8              85.135
2700                1.3                       2.1              64.352
2800                 .9                       1.5              44.714
2900                 .8                       1.3              39.325
3000                1.1                       1.9              57.617
3100                1.1                       1.9              55.864
3200                 .8                       1.4              42.236

TOTAL WEIGHT                                                 5141.053

PR/PH                            2.688

PR/1700                           .631

PH/1800                           .283

SUM OF THE N-ALKANES 1600-3200 / PR+PH     8.383
```

G-306

TABLE 3.g CONT.'D

```
NAME        PERCENT COMPOSITION           PERCENTAGE OF        COMPONENT
----             1100-3200                  1600-3200        WEIGHT IN UG.

1100                  0.0                                          0.000
1150                  0.0                                          0.000
1200                  4.0                                        185.610
1253                  3.3                                        152.748
1300                  5.4                                        251.291
1356                  4.5                                        208.805
1400                  7.2                                        333.821
1440                  2.4                                        113.372
1500                  8.3                                        386.776
1551                  0.0                                          0.000
1600                  8.1                           12.4         375.942
1620                  2.9                            4.4         133.732
1670                  4.3                            6.5         198.411
1700                  7.3                           11.2         341.254
1780                  1.7                            2.6          79.115
1800                  6.1                            9.4         286.139
1851                  2.0                            3.1          93.927
1900                  5.9                            9.1         274.787
2000                  4.5                            6.9         210.257
2100                  3.8                            5.8         176.520
2200                  3.2                            5.0         151.203
2300                  2.7                            4.2         126.032
2400                  2.2                            3.5         104.994
2500                  1.9                            2.9          87.238
2600                  1.8                            2.8          83.939
2700                  1.4                            2.1          64.274
2800                   .9                            1.4          41.319
2900                  1.1                            1.7          50.720
3000                  1.0                            1.6          47.832
3100                  1.0                            1.5          45.994
3200                  1.3                            2.0          61.044

TOTAL WEIGHT                                                    4667.097

PR/PH                            2.508

PR/1700                           .581

PH/1800                           .276

SUM OF THE N-ALKANES 1600-3200 / PR+PH     9.114
```

TABLE 3.8 CONT.'D

```
NAME            PERCENT COMPOSITION              PERCENTAGE OF              COMPONENT
----                1100-3200                     1600-3200            WEIGHT IN UG.

1100                0.0                                                      0.000
1150                0.0                                                      0.000
1200                0.0                                                      0.000
1253                0.0                                                      0.000
1300                0.0                                                      0.000
1356                7.1                                                    183.715
1400               12.3                                                    316.277
1440                4.1                                                    104.477
1500                9.9                                                    254.511
1551                 .5                                                     13.289
1600                8.5                              12.9                  218.850
1620                1.9                               2.9                   49.261
1670                4.7                               7.1                  121.108
1700                7.2                              10.8                  184.660
1780                2.0                               3.1                   52.073
1800                6.2                               9.4                  160.194
1851                2.2                               3.4                   57.846
1900                5.5                               8.3                  141.679
2000                4.3                               6.6                  111.902
2100                3.6                               5.5                   93.460
2200                3.4                               5.1                   86.710
2300                2.8                               4.3                   73.074
2400                2.3                               3.5                   60.427
2500                1.8                               2.7                   46.788
2600                1.9                               2.9                   48.907
2700                1.5                               2.3                   39.180
2800                1.3                               1.9                   32.506
2900                1.5                               2.2                   37.928
3000                1.3                               1.9                   32.491
3100                1.2                               1.9                   32.080
3200                 .8                               1.3                   21.595

TOTAL WEIGHT                                                              2574.987

PR/PH                           2.326

PR/1700                          .656

PH/1800                          .325

SUM OF THE N-ALKANES 1600-3200 / PR+PH      8.214
```

G-308

TABLE 3.g CONT.'D

NAME ----	PERCENT COMPOSITION 1100-3200	PERCENTAGE OF 1600-3200	COMPONENT WEIGHT IN UG.
1100	0.0		0.000
1150	0.0		0.000
1200	0.0		0.000
1253	7.0		206.836
1300	8.4		249.496
1356	6.6		196.409
1400	8.9		265.325
1440	2.2		64.134
1500	8.4		249.708
1551	1.8		53.194
1600	7.3	12.8	216.301
1620	1.6	2.9	48.788
1670	4.0	7.1	119.853
1700	6.3	11.0	185.875
1780	1.7	2.9	49.660
1800	5.3	9.4	158.229
1851	1.8	3.2	53.941
1900	4.7	8.2	138.333
2000	3.8	6.6	111.605
2100	3.1	5.5	93.139
2200	2.9	5.1	85.705
2300	2.5	4.4	73.411
2400	2.1	3.6	61.541
2500	1.7	3.0	50.820
2600	1.6	2.9	48.837
2700	1.3	2.3	38.921
2800	1.1	2.0	33.873
2900	1.1	1.9	32.156
3000	1.1	2.0	33.356
3100	1.0	1.8	30.832
3200	.7	1.3	21.781
TOTAL WEIGHT			2972.057

PR/PH	2.413
PR/1700	.645
PH/1800	.314
SUM OF THE N-ALKANES 1600-3200 / PR+PH	8.346

```
NAME         PERCENT COMPOSITION          PERCENTAGE OF        COMPONENT
----             1100-3200                  1600-3200        WEIGHT IN UG.

1100                 0.0                                          0.000
1150                 0.0                                          0.000
1200                 0.0                                          0.000
1253                 0.0                                          0.000
1300                 0.0                                          0.000
1356                 0.0                                          0.000
1400                 0.0                                          0.000
1440                44.9                                         11.879
1500                 0.0                                          0.000
1551                 0.0                                          0.000
1600                 0.0                          0.0             0.000
1620                34.9                         63.3             9.223
1670                 0.0                          0.0             0.000
1700                 0.0                          0.0             0.000
1780                 0.0                          0.0             0.000
1800                 0.0                          0.0             0.000
1851                20.2                         36.7             5.344
1900                 0.0                          0.0             0.000
2000                 0.0                          0.0             0.000
2100                 0.0                          0.0             0.000
2200                 0.0                          0.0             0.000
2300                 0.0                          0.0             0.000
2400                 0.0                          0.0             0.000
2500                 0.0                          0.0             0.000
2600                 0.0                          0.0             0.000
2700                 0.0                          0.0             0.000
2800                 0.0                          0.0             0.000
2900                 0.0                          0.0             0.000
3000                 0.0                          0.0             0.000
3100                 0.0                          0.0             0.000
3200                 0.0                          0.0             0.000

TOTAL WEIGHT                                                     26.445

PR/PH                          I

PR/1700                        I

PH/1800                        I

SUM OF THE N-ALKANES 1600-3200 / PR+PH        I
```

TABLE 3.8 CONT.'D

TABLE 3.g CONT.'D

```
NAME     PERCENT COMPOSITION          PERCENTAGE OF        COMPONENT
----          1100-3200                  1600-3200        WEIGHT IN UG.

1100             0.0                                          0.000
1150             0.0                                          0.000
1200             0.0                                          0.000
1253             0.0                                          0.000
1300             0.0                                          0.000
1356             0.0                                          0.000
1400             0.0                                          0.000
1440            16.2                                         15.578
1500             0.0                                          0.000
1551            21.9                                         21.097
1600             0.0                          0.0             0.000
1620             9.6                         15.6             9.263
1670            27.9                         45.1            26.840
1700             0.0                          0.0             0.000
1780             9.9                         16.0             9.501
1800             0.0                          0.0             0.000
1851             7.0                         11.3             6.750
1900             0.0                          0.0             0.000
2000             0.0                          0.0             0.000
2100             0.0                          0.0             0.000
2200             0.0                          0.0             0.000
2300             0.0                          0.0             0.000
2400             0.0                          0.0             0.000
2500             7.4                         12.0             7.125
2600             0.0                          0.0             0.000
2700             0.0                          0.0             0.000
2800             0.0                          0.0             0.000
2900             0.0                          0.0             0.000
3000             0.0                          0.0             0.000
3100             0.0                          0.0             0.000
3200             0.0                          0.0             0.000

TOTAL WEIGHT                                                 96.155

PR/PH                          2.825

PR/1700                            R

PH/1800                            R

SUM OF THE N-ALKANES 1600-3200 / PR+PH     .196
```

TABLE 3.8 CONT.'D

```
NAME          PERCENT COMPOSITION          PERCENTAGE OF          COMPONENT
----              1100-3200                  1600-3200          WEIGHT IN UG.

1100                 0.0                                            0.000
1150                 0.0                                            0.000
1200                 0.0                                            0.000
1253                 0.0                                            0.000
1300                 0.0                                            0.000
1356                 0.0                                            0.000
1400                 0.0                                            0.000
1440                 0.0                                            0.000
1500                 0.0                                            0.000
1551                 0.0                                            0.000
1600                40.4                          40.4                  6.119
1620                 0.0                           0.0                  0.000
1670                29.0                          29.0                  4.396
1700                 0.0                           0.0                  0.000
1780                 0.0                           0.0                  0.000
1800                30.6                          30.6                  4.640
1851                 0.0                           0.0                  0.000
1900                 0.0                           0.0                  0.000
2000                 0.0                           0.0                  0.000
2100                 0.0                           0.0                  0.000
2200                 0.0                           0.0                  0.000
2300                 0.0                           0.0                  0.000
2400                 0.0                           0.0                  0.000
2500                 0.0                           0.0                  0.000
2600                 0.0                           0.0                  0.000
2700                 0.0                           0.0                  0.000
2800                 0.0                           0.0                  0.000
2900                 0.0                           0.0                  0.000
3000                 0.0                           0.0                  0.000
3100                 0.0                           0.0                  0.000
3200                 0.0                           0.0                  0.000

TOTAL WEIGHT                                                       15.155

PR/PH                              R

PR/1700                            R

PH/1800                        0.000

SUM OF THE N-ALKANES 1600-3200 / PR+PH      2.448
```

TABLE 3.g CONT.'D

```
NAME          PERCENT COMPOSITION              PERCENTAGE OF          COMPONENT
----               1100-3200                     1600-3200           WEIGHT IN UG.

1100                  0.0                                                0.000
1150                  0.0                                                0.000
1200                  0.0                                                0.000
1253                  0.0                                                0.000
1300                  0.0                                                0.000
1356                  0.0                                                0.000
1400                  0.0                                                0.000
1440                 40.3                                               10.785
1500                  0.0                                                0.000
1551                  0.0                                                0.000
1600                  0.0                              0.0               0.000
1620                 23.4                             39.3               6.268
1670                  0.0                              0.0               0.000
1700                  0.0                              0.0               0.000
1780                 19.9                             33.3               5.308
1800                  0.0                              0.0               0.000
1851                  0.0                              0.0               0.000
1900                  0.0                              0.0               0.000
2000                  0.0                              0.0               0.000
2100                  0.0                              0.0               0.000
2200                  0.0                              0.0               0.000
2300                  0.0                              0.0               0.000
2400                  0.0                              0.0               0.000
2500                  0.0                              0.0               0.000
2600                  0.0                              0.0               0.000
2700                  0.0                              0.0               0.000
2800                  0.0                              0.0               0.000
2900                  0.0                              0.0               0.000
3000                  0.0                              0.0               0.000
3100                 16.4                             27.4               4.377
3200                  0.0                              0.0               0.000

TOTAL WEIGHT                                                            26.738

PR/PH                              0.000

PR/1700                              I

PH/1800                              R

SUM OF THE N-ALKANES 1600-3200 / PR+PH     .825
```

TABLE 3.8 CONT.'D

NAME ----	PERCENT COMPOSITION 1100-3200	PERCENTAGE OF 1600-3200	COMPONENT WEIGHT IN UG.
1100	0.0		0.000
1150	0.0		0.000
1200	5.3		319.211
1253	4.3		263.277
1300	7.2		437.173
1356	5.5		334.442
1400	8.3		501.408
1440	2.7		164.351
1500	8.5		517.061
1551	0.0		0.000
1600	7.5	12.9	456.097
1620	2.6	4.5	157.163
1670	3.8	6.5	230.316
1700	6.4	11.1	390.529
1780	1.5	2.5	88.423
1800	5.4	9.3	326.692
1851	1.8	3.1	108.043
1900	5.1	8.8	311.158
2000	4.0	6.9	245.099
2100	3.3	5.8	202.939
2200	3.0	5.2	182.481
2300	2.5	4.3	151.486
2400	2.1	3.5	125.221
2500	1.7	2.9	101.029
2600	1.6	2.7	96.621
2700	1.2	2.1	72.780
2800	1.0	1.7	59.444
2900	1.0	1.6	57.637
3000	1.0	1.7	59.928
3100	.9	1.6	57.218
3200	.8	1.3	47.558
TOTAL WEIGHT			6064.785

PR/PH 2.605

PR/1700 .590

PH/1800 .271

SUM OF THE N-ALKANES 1600-3200 / PR+PH 9.236

TABLE 3.g CONT.'D

```
NAME          PERCENT COMPOSITION          PERCENTAGE OF          COMPONENT
----              1100-3200                  1600-3200          WEIGHT IN UG.

1100                 0.0                                             0.000
1150                 0.0                                             0.000
1200                 0.0                                             0.000
1253                 0.0                                             0.000
1300                 0.0                                             0.000
1356                 0.0                                             0.000
1400                 8.9                                             4.568
1440                11.2                                             5.742
1500                27.5                                            14.083
1551                 0.0                                             0.000
1600                 0.0                            0.0              0.000
1620                 0.0                            0.0              0.000
1670                 0.0                            0.0              0.000
1700                 0.0                            0.0              0.000
1780                 0.0                            0.0              0.000
1800                 0.0                            0.0              0.000
1851                 0.0                            0.0              0.000
1900                10.1                           19.3              5.160
2000                 9.9                           19.0              5.086
2100                 6.8                           13.0              3.468
2200                 0.0                            0.0              0.000
2300                 0.0                            0.0              0.000
2400                 0.0                            0.0              0.000
2500                 0.0                            0.0              0.000
2600                 0.0                            0.0              0.000
2700                 0.0                            0.0              0.000
2800                 0.0                            0.0              0.000
2900                 0.0                            0.0              0.000
3000                 0.0                            0.0              0.000
3100                25.5                           48.8             13.047
3200                 0.0                            0.0              0.000

TOTAL WEIGHT                                                        51.155

PR/PH                             I

PR/1700                           I

PH/1800                           I

SUM OF THE N-ALKANES 1600-3200 / PR+PH       R
```

TABLE 3.8 CONT.'D

```
NAME           PERCENT COMPOSITION          PERCENTAGE OF          COMPONENT
----                1100-3200                  1600-3200          WEIGHT IN UG.

1100                   0.0                                                0.000
1150                   0.0                                                0.000
1200                   0.0                                                0.000
1253                   0.0                                                0.000
1300                   0.0                                                0.000
1356                   7.8                                             2932.082
1400                   9.5                                             3557.627
1440                   7.4                                             2778.484
1500                   9.9                                             3710.530
1551                   3.4                                             1292.141
1600                   7.4                         12.0                2783.709
1620                   1.8                          3.0                 689.044
1670                   4.2                          6.7                1560.934
1700                   7.0                         11.3                2627.236
1780                   1.4                          2.3                 529.469
1800                   5.8                          9.4                2176.858
1851                   2.0                          3.2                 744.360
1900                   5.2                          8.3                1934.661
2000                   4.1                          6.6                1531.719
2100                   3.3                          5.3                1240.060
2200                   3.2                          5.1                1192.284
2300                   2.7                          4.4                1018.019
2400                   2.2                          3.6                 830.791
2500                   1.8                          2.9                 674.632
2600                   1.9                          3.0                 696.052
2700                   1.6                          2.5                 584.188
2800                   1.2                          2.0                 461.109
2900                   1.5                          2.4                 557.983
3000                   1.3                          2.1                 496.985
3100                   1.4                          2.3                 535.153
3200                    .9                          1.5                 350.778

TOTAL WEIGHT                                                          37486.887

PR/PH                            2.948

PR/1700                           .594

PH/1800                           .243

SUM OF THE N-ALKANES 1600-3200 / PR+PH     9.420
```

TABLE 3.g CONT.'D

NAME	PERCENT COMPOSITION 1100-3200	PERCENTAGE OF 1600-3200	COMPONENT WEIGHT IN UG.
1100	0.0		0.000
1150	0.0		0.000
1200	0.0		0.000
1253	0.0		0.000
1300	0.0		0.000
1356	9.6		3990.670
1400	9.3		3898.510
1440	7.3		3036.299
1500	9.8		4082.990
1551	3.4		1402.705
1600	7.2	11.9	3014.155
1620	1.7	2.8	714.435
1670	4.0	6.6	1659.924
1700	6.8	11.2	2838.047
1780	1.4	2.2	567.535
1800	5.7	9.5	2394.877
1851	2.0	3.2	818.544
1900	5.1	8.5	2142.727
2000	4.0	6.7	1687.492
2100	3.3	5.4	1375.485
2200	3.0	5.0	1271.240
2300	2.7	4.5	1127.818
2400	2.2	3.6	913.962
2500	1.8	2.9	747.095
2600	1.9	3.1	777.777
2700	1.5	2.5	641.073
2800	1.3	2.1	530.414
2900	1.4	2.4	603.902
3000	1.3	2.2	557.209
3100	1.3	2.1	539.607
3200	1.0	1.6	413.034
TOTAL WEIGHT			41747.527

PR/PH	2.925
PR/1700	.585
PH/1800	.237
SUM OF THE N-ALKANES 1600-3200 / PR+PH	9.686

TABLE 3.8 CONT.'D

```
NAME          PERCENT COMPOSITION          PERCENTAGE OF            COMPONENT
----              1100-3200                  1600-3200             WEIGHT IN UG.

1100                0.0                                                0.000
1150                0.0                                                0.000
1200                0.0                                                0.000
1253                0.0                                                0.000
1300                0.0                                                0.000
1356                9.2                                             1450.446
1400                9.2                                             1441.840
1440                7.3                                             1141.742
1500                9.7                                             1522.471
1551                3.3                                              517.061
1600                7.2                        11.8                 1131.796
1620                1.7                         2.8                  268.850
1670                4.1                         6.7                  643.406
1700                6.9                        11.2                 1081.146
1780                1.5                         2.4                  228.060
1800                5.8                         9.5                  915.717
1851                2.0                         3.2                  308.897
1900                5.2                         8.5                  814.526
2000                4.1                         6.6                  639.638
2100                3.3                         5.4                  521.322
2200                3.1                         5.1                  490.514
2300                2.7                         4.5                  430.645
2400                2.2                         3.6                  349.786
2500                1.8                         3.0                  288.498
2600                1.8                         3.0                  289.072
2700                1.6                         2.6                  253.714
2800                1.2                         2.0                  194.321
2900                1.5                         2.4                  228.199
3000                1.3                         2.1                  203.603
3100                1.2                         2.0                  193.594
3200                1.0                         1.6                  155.501

TOTAL WEIGHT                                                       15704.365

PR/PH                         2.821

PR/1700                        .595

PH/1800                        .249

SUM OF THE N-ALKANES 1600-3200 / PR+PH     9.388
```

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TABLE 3.g CONT.'D

NAME	PERCENT COMPOSITION 1100-3200	PERCENTAGE OF 1600-3200	COMPONENT WEIGHT IN UG.

1100	0.0		0.000
1150	0.0		0.000
1200	0.0		0.000
1253	0.0		0.000
1300	0.0		0.000
1356	0.0		0.000
1400	13.1		2104.095
1440	2.4		391.404
1500	10.5		1674.104
1551	3.8		602.078
1600	7.9	11.2	1262.827
1620	1.5	2.2	245.084
1670	4.9	6.9	777.948
1700	8.0	11.4	1277.120
1780	1.8	2.5	280.721
1800	6.8	9.8	1095.712
1851	2.3	3.2	363.487
1900	6.0	8.6	966.583
2000	4.8	6.8	765.507
2100	3.9	5.5	619.871
2200	3.6	5.1	578.040
2300	3.2	4.6	512.184
2400	2.5	3.6	405.659
2500	2.1	2.9	328.867
2600	2.2	3.2	357.827
2700	2.0	2.9	325.207
2800	1.6	2.2	248.439
2900	1.6	2.3	254.436
3000	1.6	2.3	255.531
3100	1.2	1.6	185.394
3200	.8	1.2	129.862
TOTAL WEIGHT			16007.990

PR/PH 2.771

PR/1700 .609

PH/1800 .256

SUM OF THE N-ALKANES 1600-3200 / PR+PH 9.039

TABLE 3.g CONT.'D

Summary for Cruise 7 succession:
β. Aromatic Fraction Distribution for All Samples

Sequence	Sample Number	Treatment (Days)
1	711	(RUBA-1), 0
2	712	(RUBA-2), 0
3	723	(RUBA-3), 100
4	724	(RUBA-4), 100
5	733	(RUBC-3), 100
6	734	(RUBC-4), 100
7	B711	(RUBD-1), 0
8	B712	(RUBD-2), 0
9	B715	(RUBD-5), 100
10	B716	(RUBD-6), 100
11	B723	(RUBE-3), 100
12	B724	(RUBE-4), 100
13	B733	(RUBF-3), 100
14	B734	(RUBF-4), 100
15	C711(1.0)	(RUBG-1), 0
16	C712(1.0)	(RUBG-2), 0
17	C711(0.5)	(RUBG-3), 0
18	C712(0.5)	(RUBG-4), 0

TABLE 3.8 CONT.'D

```
NAME     PERCENT COMPOSITION       COMPONENT WEIGHT IN UG.


 1750              2.6                        3.343

 1870             10.9                       13.995

 1910              6.8                        8.679

 1980              8.1                       10.391

 2020             21.3                       27.284

 2060              4.1                        5.307

 2080              2.2                        2.857

 2110              0.0                        0.000

 2130             16.4                       20.960

 2170              5.8                        7.429

 2210              4.4                        5.577

 2220               .1                         .158

 2240              4.9                        6.326

 2290               .4                         .456

 2310               .8                        1.012

 2430              6.7                        8.636

 2520              4.3                        5.562


TOTAL WEIGHT                                127.972
```

TABLE 3.g CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	0.0	0.000
1870	11.1	3.156
1910	5.5	1.568
1980	7.0	1.997
2020	22.2	6.324
2060	5.7	1.629
2080	3.7	1.053
2110	1.9	,542
2130	10.3	2.923
2170	7.5	2.144
2210	5.1	1.462
2220	.6	.171
2240	4.5	1.289
2290	1.1	.324
2310	2.5	.706
2430	6.9	1.974
2520	4.1	1.164
TOTAL WEIGHT		28.424

TABLE 3.8 CONT.'D

```
 NAME      PERCENT COMPOSITION        COMPONENT WEIGHT IN UG.


  1750                0.0                     0.000

  1870                7.9                     6.926

  1910                4.9                     4.274

  1980                9.6                     8.432

  2020               22.5                    19.825

  2060                6.7                     5.863

  2080                3.3                     2.895

  2110                5.7                     5.048

  2130               12.5                    10.987

  2170                8.8                     7.705

  2210                5.5                     4.803

  2220                1.0                      .865

  2240                1.7                     1.454

  2290                1.0                      .859

  2310                1.8                     1.612

  2430                4.2                     3.684

  2520                3.2                     2.808


TOTAL WEIGHT                                 88.040
```

TABLE 3.g CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	0.0	0.000
1870	0.0	0.000
1910	0.0	0.000
1980	8.0	5.941
2020	18.8	13.947
2060	5.7	4.250
2080	4.4	3.288
2110	2.1	1.520
2130	12.3	9.107
2170	13.4	9.958
2210	8.8	6.537
2220	1.6	1.203
2240	3.9	2.863
2290	1.3	.931
2310	4.1	3.025
2430	8.5	6.332
2520	7.0	5.186
TOTAL WEIGHT		74.087

TABLE 3.8 CONT.'D

```
NAME     PERCENT COMPOSITION       COMPONENT WEIGHT IN UG.


 1750             0.0                     0.000

 1870             7.0                     3.012

 1910             5.3                     2.285

 1980             8.7                     3.775

 2020            23.5                    10.168

 2060             6.7                     2.906

 2080             4.0                     1.746

 2110             2.2                      .970

 2130             9.0                     3.893

 2170            10.7                     4.640

 2210             6.5                     2.796

 2220             1.2                      .505

 2240             2.8                     1.205

 2290             1.2                      .508

 2310             1.8                      .760

 2430             4.5                     1.933

 2520             4.9                     2.096


TOTAL WEIGHT                             43.196
```

TABLE 3.g CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	5.4	2.927
1870	13.2	7.215
1910	9.6	5.256
1980	7.2	3.907
2020	22.4	12.259
2060	5.4	2.940
2080	2.7	1.490
2110	1.5	.818
2130	8.4	4.585
2170	6.4	3.474
2210	4.1	2.244
2220	.7	.370
2240	3.0	1.645
2290	.8	.452
2310	1.1	.580
2430	4.7	2.592
2520	3.4	1.877
TOTAL WEIGHT		54.631

TABLE 3.g CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	5.1	3.732
1870	14.2	10.337
1910	9.0	6.554
1980	7.7	5.572
2020	21.7	15.811
2060	5.5	3.980
2080	3.1	2.220
2110	1.6	1.171
2130	8.1	5.866
2170	6.6	4.810
2210	4.3	3.158
2220	.7	.474
2240	2.5	1.795
2290	.8	.549
2310	1.2	.899
2430	4.7	3.398
2520	3.4	2.448
TOTAL WEIGHT		72.773

TABLE 3.g CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	0.0	0.000
1870	0.0	0.000
1910	0.0	0.000
1980	0.0	0.000
2020	27.7	11.431
2060	5.9	2.419
2080	4.2	1.720
2110	4.1	1.706
2130	16.6	6.840
2170	8.9	3.672
2210	8.4	3.487
2220	1.5	.625
2240	3.9	1.616
2290	1.5	.630
2310	3.7	1.542
2430	7.2	2.974
2520	6.4	2.660
TOTAL WEIGHT		41.322

```
NAME      PERCENT COMPOSITION        COMPONENT WEIGHT IN UG.


 1750                  0.0                      0.000

 1870                  2.8                      1.104

 1910                  2.3                       .902

 1980                  5.5                      2.125

 2020                 16.1                      6.222

 2060                  5.0                      1.954

 2080                  4.1                      1.584

 2110                  1.5                       .579

 2130                 12.5                      4.860

 2170                 11.8                      4.570

 2210                  8.8                      3.409

 2220                  1.9                       .745

 2240                  4.1                      1.568

 2290                  1.7                       .652

 2310                  3.1                      1.217

 2430                  9.9                      3.834

 2520                  8.8                      3.399


TOTAL WEIGHT                                   38.724
```

TABLE 3.8 CONT.'D

TABLE 3.g CONT.'D

```
  NAME     PERCENT COMPOSITION       COMPONENT WEIGHT IN UG.

   1750                 0.0                   0.000

   1870                 0.0                   0.000

   1910                 0.0                   0.000

   1980                 0.0                   0.000

   2020               100.0                   3.531

   2060                 0.0                   0.000

   2080                 0.0                   0.000

   2110                 0.0                   0.000

   2130                 0.0                   0.000

   2170                 0.0                   0.000

   2210                 0.0                   0.000

   2220                 0.0                   0.000

   2240                 0.0                   0.000

   2290                 0.0                   0.000

   2310                 0.0                   0.000

   2430                 0.0                   0.000

   2520                 0.0                   0.000


 TOTAL WEIGHT                                 3.531
```

TABLE 3.8 CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	0.0	0.000
1870	0.0	0.000
1910	0.0	0.000
1980	0.0	0.000
2020	0.0	0.000
2060	0.0	0.000
2080	0.0	0.000
2110	0.0	0.000
2130	34.5	7.324
2170	19.5	4.140
2210	12.4	2.626
2220	2.2	.475
2240	5.3	1.125
2290	2.2	.477
2310	7.4	1.577
2430	10.0	2.114
2520	6.5	1.370
TOTAL WEIGHT		21.229

TABLE 3.g CONT.'D

```
  NAME     PERCENT COMPOSITION      COMPONENT WEIGHT IN UG.

   1750              0.0                    0.000
   1870             10.9                   10.602
   1910              6.8                    6.599
   1980              9.5                    9.187
   2020             23.2                   22.521
   2060              6.3                    6.130
   2080              3.7                    3.570
   2110              1.8                    1.707
   2130              8.2                    8.002
   2170              8.7                    8.439
   2210              5.8                    5.630
   2220              1.0                    1.013
   2240              2.5                    2.431
   2290              1.0                    1.018
   2310              1.6                    1.579
   2430              4.7                    4.542
   2520              4.3                    4.206


 TOTAL WEIGHT                              97.177
```

TABLE 3.g CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	5.4	1.550
1870	10.3	2.969
1910	5.8	1.686
1980	6.0	1.724
2020	18.8	5.438
2060	5.5	1.581
2080	2.8	.819
2110	2.0	.583
2130	8.1	2.350
2170	8.0	2.317
2210	6.6	1.909
2220	1.1	.332
2240	2.8	.824
2290	1.2	.334
2310	1.8	.518
2430	5.7	1.647
2520	8.2	2.364
TOTAL WEIGHT		28.944

TABLE 3.g CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	6.8	179.280
1870	14.6	388.236
1910	7.4	197.051
1980	8.0	213.418
2020	18.4	488.886
2060	3.8	101.302
2080	3.1	81.988
2110	2.5	65.967
2130	11.5	306.230
2170	5.2	138.386
2210	4.4	117.040
2220	.5	14.345
2240	3.1	81.338
2290	.7	19.330
2310	1.7	46.291
2430	6.2	164.880
2520	1.9	51.668
TOTAL WEIGHT		2655.635

TABLE 3.8 CONT.'D

```
NAME     PERCENT COMPOSITION         COMPONENT WEIGHT IN UG.


  1750                 6.4                     214.206

  1870                14.1                     468.644

  1910                 6.9                     231.228

  1980                 7.8                     259.938

  2020                17.5                     583.793

  2060                 4.0                     134.389

  2080                 3.1                     103.571

  2110                 1.9                      62.434

  2130                12.7                     423.491

  2170                 5.0                     166.933

  2210                 4.2                     141.372

  2220                  .5                      17.063

  2240                 2.3                      78.140

  2290                  .7                      24.178

  2310                 1.9                      63.304

  2430                 5.8                     193.346

  2520                 5.0                     168.388


 TOTAL WEIGHT                                 3334.419
```

TABLE 3.g CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	3.4	26.913
1870	11.1	88.806
1910	4.3	34.646
1980	7.8	62.063
2020	17.2	137.285
2060	3.8	30.545
2080	3.6	29.077
2110	3.0	23.784
2130	14.6	116.379
2170	5.5	44.150
2210	5.0	40.225
2220	.9	7.514
2240	2.3	18.366
2290	1.0	7.631
2310	3.3	26.161
2430	7.6	60.567
2520	5.4	43.051
TOTAL WEIGHT		797.165

TABLE 3.8 CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	5.3	63.742
1870	14.0	169.183
1910	6.7	81.489
1980	8.1	98.478
2020	18.3	221.941
2060	4.0	48.177
2080	3.1	36.975
2110	2.3	28.244
2130	13.6	164.680
2170	5.1	61.188
2210	4.2	51.119
2220	.6	7.514
2240	1.8	21.743
2290	.6	7.631
2310	2.5	30.617
2430	5.9	71.630
2520	3.9	46.707
TOTAL WEIGHT		1211.058

TABLE 3.h

Summary for Cruise 8 succession:
A. Saturated Hydrocarbon Distribution for All Samples

Sequence	Sample Number	Treatment (Days)
1	818	(RUBH-8), 0
2	813	(RUBH-3), 122
3	814	(RUBH-4), 122
4	823	(RUBI-3), 122
5	824	(RUBI-4), 122
6	833	(RUBJ-3), 122
7	834	(RUBJ-4), 122
8	819	(RUBH-9), Sterile Weathering Control (122-day)
9	81(10)	(RUBH-10), Sterile Weathering Control (122-day)

TABLE 3.h CONT.'D

NAME ----	PERCENT COMPOSITION 1100-3200	PERCENTAGE OF 1600-3200	COMPONENT WEIGHT IN UG.
1100	0.0		0.000
1150	0.0		0.000
1200	11.9		828.717
1253	5.4		377.275
1300	9.1		629.231
1356	4.9		339.631
1400	7.7		532.526
1440	2.4		165.035
1500	7.5		521.552
1551	0.0		0.000
1600	6.5	12.7	451.853
1620	2.3	4.5	161.585
1670	3.2	6.3	224.971
1700	5.7	11.1	394.341
1780	1.3	2.6	91.708
1800	4.8	9.5	336.814
1851	1.6	3.1	110.966
1900	4.6	9.0	320.597
2000	3.6	7.0	249.069
2100	2.9	5.6	198.423
2200	2.5	5.0	176.968
2300	2.1	4.2	147.514
2400	1.8	3.5	122.943
2500	1.5	2.9	102.280
2600	1.4	2.8	98.305
2700	1.1	2.1	75.231
2800	.7	1.3	47.837
2900	.8	1.6	56.579
3000	.9	1.8	64.311
3100	1.0	2.0	70.471
3200	.7	1.4	50.261
TOTAL WEIGHT			6946.992

PR/PH 2.453

PR/1700 .570

PH/1800 .272

SUM OF THE N-ALKANES 1600-3200 / PR+PH 9.359

TABLE 3.h CONT.'D

```
NAME        PERCENT COMPOSITION        PERCENTAGE OF          COMPONENT
----           1100-3200                 1600-3200          WEIGHT IN UG.

1100             0.0                                              0.000
1150             0.0                                              0.000
1200             4.8                                            303.935
1253             4.7                                            295.956
1300             7.4                                            468.860
1356             5.5                                            343.468
1400             8.0                                            504.264
1440             2.7                                            168.453
1500             8.4                                            528.878
1551              .2                                             12.695
1600             7.4                        12.7                467.983
1620             1.8                         3.0                111.557
1670             3.8                         6.5                237.591
1700             6.4                        11.0                403.699
1780             1.5                         2.6                 94.796
1800             5.4                         9.3                341.228
1851             1.3                         2.2                 81.989
1900             5.2                         8.9                325.196
2000             4.2                         7.2                263.429
2100             3.7                         6.3                230.561
2200             3.3                         5.6                206.878
2300             2.8                         4.8                175.157
2400             2.3                         3.9                143.492
2500             1.8                         3.1                114.451
2600             1.8                         3.0                111.921
2700             1.3                         2.2                 81.129
2800              .8                         1.3                 48.920
2900              .7                         1.3                 46.756
3000             1.2                         2.1                 76.738
3100              .8                         1.4                 53.116
3200              .9                         1.5                 56.903

TOTAL WEIGHT                                                   6300.001

PR/PH                       2.506

PR/1700                      .589

PH/1800                      .278

SUM OF THE N-ALKANES 1600-3200 / PR+PH      9.470
```

TABLE 3.h CONT.'D

```
NAME          PERCENT COMPOSITION           PERCENTAGE OF         COMPONENT
----              1100-3200                   1600-3200         WEIGHT IN UG.

1100                 0.0                                            0.000
1150                 0.0                                            0.000
1200                 3.1                                          172.923
1253                 2.6                                          146.687
1300                 4.5                                          252.085
1356                 3.6                                          202.233
1400                 6.5                                          363.969
1440                 2.5                                          136.824
1500                 7.7                                          430.744
1551                  .3                                           14.255
1600                 8.3                          12.1            464.017
1620                 3.0                           4.4            168.097
1670                 4.5                           6.6            253.141
1700                 7.5                          10.8            417.171
1780                 1.9                           2.7            103.445
1800                 6.6                           9.6            370.268
1851                 1.7                           2.4             94.163
1900                 6.5                           9.3            359.898
2000                 5.4                           7.8            300.763
2100                 3.9                           5.7            218.322
2200                 4.0                           5.8            222.711
2300                 3.2                           4.6            177.287
2400                 2.6                           3.7            143.026
2500                 2.0                           2.9            112.361
2600                 2.0                           2.9            109.933
2700                 1.4                           2.1             79.226
2800                  .9                           1.3             51.911
2900                  .8                           1.1             43.733
3000                 1.1                           1.5             58.497
3100                 1.0                           1.5             55.936
3200                  .8                           1.2             45.558

TOTAL WEIGHT                                                     5569.184

PR/PH                          2.447

PR/1700                         .607

PH/1800                         .279

SUM OF THE N-ALKANES 1600-3200 / PR+PH     9.060
```

TABLE 3.h CONT.'D

NAME ----	PERCENT COMPOSITION 1100-3200	PERCENTAGE OF 1600-3200	COMPONENT WEIGHT IN UG.
1100	0.0		0.000
1150	0.0		0.000
1200	5.7		473.292
1253	4.6		380.296
1300	7.2		593.869
1356	5.4		447.209
1400	8.0		661.595
1440	1.8		150.723
1500	7.8		645.059
1551	.1		8.484
1600	6.8	11.5	563.322
1620	1.4	2.4	119.689
1670	4.1	6.8	335.536
1700	6.3	10.6	521.941
1780	1.7	2.9	142.040
1800	5.4	9.1	445.490
1851	1.8	3.1	153.063
1900	4.8	8.1	400.126
2000	4.0	6.7	328.417
2100	3.4	5.7	281.254
2200	3.3	5.5	271.803
2300	3.0	5.0	245.021
2400	2.4	4.1	201.553
2500	1.9	3.2	156.169
2600	1.9	3.2	156.491
2700	1.4	2.4	118.914
2800	1.1	1.9	94.449
2900	1.4	2.3	112.116
3000	1.2	2.0	98.002
3100	1.1	1.8	90.038
3200	1.0	1.6	79.813
TOTAL WEIGHT			8275.774

PR/PH 2.362

PR/1700 .643

PH/1800 .319

SUM OF THE N-ALKANES 1600-3200 / PR+PH 8.721

TABLE 3.h CONT.'D

```
NAME          PERCENT COMPOSITION          PERCENTAGE OF           COMPONENT
----              1100-3200                  1600-3200          WEIGHT IN UG.

1100                 0.0                                                0.000
1150                 0.0                                                0.000
1200                 6.5                                              336.171
1253                 4.5                                              229.991
1300                 7.0                                              360.427
1356                 5.2                                              267.800
1400                 7.7                                              394.913
1440                 2.5                                              128.064
1500                 8.3                                              428.620
1551                 0.0                                                0.000
1600                 7.8                        13.4                  400.451
1620                 1.8                         3.1                   92.578
1670                 4.1                         7.0                  208.337
1700                 6.8                        11.6                  348.059
1780                 1.6                         2.7                   80.713
1800                 5.7                         9.8                  292.322
1851                 1.9                         3.3                   98.009
1900                 5.3                         9.1                  272.883
2000                 4.1                         7.1                  211.437
2100                 3.3                         5.7                  170.410
2200                 3.0                         5.1                  151.871
2300                 2.5                         4.2                  126.024
2400                 2.0                         3.5                  104.309
2500                 1.6                         2.8                   82.611
2600                 1.6                         2.7                   81.489
2700                 1.2                         2.1                   62.260
2800                  .7                         1.3                   37.839
2900                  .9                         1.6                   48.552
3000                 1.0                         1.7                   50.835
3100                  .7                         1.3                   37.950
3200                  .7                         1.1                   33.990

TOTAL WEIGHT                                                         5138.914

PR/PH                         2.581

PR/1700                        .599

PH/1800                        .276

SUM OF THE N-ALKANES 1600-3200 / PR+PH      8.695
```

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TABLE 3.h CONT.'D

NAME ----	PERCENT COMPOSITION 1100-3200	PERCENTAGE OF 1600-3200	COMPONENT WEIGHT IN UG.
1100	0.0		0.000
1150	0.0		0.000
1200	7.2		526.427
1253	5.1		370.792
1300	8.2		596.365
1356	4.5		327.268
1400	8.0		582.317
1440	2.5		183.440
1500	8.2		596.904
1551	.2		13.351
1600	7.1	12.7	522.171
1620	2.6	4.7	191.844
1670	3.5	6.2	255.239
1700	6.1	10.9	446.990
1780	1.4	2.5	103.900
1800	5.1	9.1	375.630
1851	1.7	3.0	121.969
1900	5.0	8.9	366.989
2000	4.1	7.3	298.569
2100	3.5	6.2	255.032
2200	3.1	5.5	227.337
2300	2.6	4.6	188.237
2400	2.1	3.7	153.163
2500	1.7	3.0	122.141
2600	1.7	3.0	122.135
2700	1.1	2.0	82.296
2800	.8	1.3	55.195
2900	.9	1.6	64.085
3000	1.1	2.0	83.049
3100	.7	1.2	50.122
3200	.3	.5	21.297
TOTAL WEIGHT			7304.251

PR/PH 2.457

PR/1700 .571

PH/1800 .277

SUM OF THE N-ALKANES 1600-3200 / PR+PH 9.563

TABLE 3.h CONT.'D

```
NAME         PERCENT COMPOSITION            PERCENTAGE OF           COMPONENT
----              1100-3200                   1600-3200           WEIGHT IN UG.

1100                 0.0                                                 0.000
1150                 0.0                                                 0.000
1200                 3.9                                               223.628
1253                 4.2                                               241.296
1300                 7.0                                               395.853
1356                 5.6                                               316.423
1400                 8.1                                               462.563
1440                 2.7                                               152.433
1500                 8.5                                               481.601
1551                 0.0                                                 0.000
1600                 7.7                         12.8                  437.221
1620                 2.7                          4.5                  154.029
1670                 4.1                          6.8                  230.412
1700                 6.5                         10.9                  371.021
1780                 1.5                          2.5                   85.317
1800                 5.3                          8.9                  302.734
1851                 1.3                          2.1                   71.631
1900                 5.3                          8.8                  298.647
2000                 4.2                          7.1                  240.609
2100                 3.3                          5.5                  186.773
2200                 3.3                          5.5                  186.752
2300                 2.7                          4.6                  155.308
2400                 2.3                          3.8                  127.971
2500                 1.8                          3.1                  104.297
2600                 1.8                          3.0                  103.475
2700                 1.4                          2.3                   76.995
2800                  .9                          1.6                   53.124
2900                  .8                          1.3                   45.199
3000                 1.1                          1.9                   63.068
3100                 1.0                          1.7                   59.310
3200                  .9                          1.5                   51.636

TOTAL WEIGHT                                                          5679.325

PR/PH                          2.701

PR/1700                         .621

PH/1800                         .282

SUM OF THE N-ALKANES 1600-3200 / PR+PH        9.072
```

TABLE 3.h CONT.'D

```
NAME          PERCENT COMPOSITION           PERCENTAGE OF        COMPONENT
----              1100-3200                   1600-3200          WEIGHT IN UG.

1100                0.0                                               0.000
1150                0.0                                               0.000
1200                3.5                                             278.626
1253                2.6                                             208.974
1300                4.6                                             363.047
1356                3.2                                             254.613
1400                6.0                                             476.533
1440                3.5                                             278.091
1500                7.2                                             572.147
1551                1.6                                             124.399
1600                7.3                           10.8              577.652
1620                2.8                            4.1              219.234
1670                3.2                            4.7              253.638
1700                6.3                            9.2              494.720
1780                1.3                            1.9              102.575
1800                5.4                            7.9              423.712
1851                1.7                            2.5              134.458
1900                5.7                            8.4              448.940
2000                4.6                            6.8              366.085
2100                3.9                            5.8              310.665
2200                3.4                            5.1              270.884
2300                2.9                            4.3              229.359
2400                2.5                            3.7              197.638
2500                2.2                            3.2              171.251
2600                1.7                            2.6              136.946
2700                1.5                            2.2              116.651
2800                1.3                            1.9              102.487
2900                1.7                            2.5              132.584
3000                2.5                            3.8              201.230
3100                3.1                            4.5              241.400
3200                2.8                            4.1              219.909

TOTAL WEIGHT                                                       7908.447

PR/PH                         2.473

PR/1700                        .513

PH/1800                        .242

SUM OF THE N-ALKANES 1600-3200 / PR+PH    13.032
```

```
NAME          PERCENT COMPOSITION               PERCENTAGE OF          COMPONENT
----               1100-3200                      1600-3200          WEIGHT IN UG.

1100                  0.0                                                 0.000
1150                  0.0                                                 0.000
1200                  0.0                                                 0.000
1253                  0.0                                                 0.000
1300                  2.4                                               104.499
1356                  3.4                                               149.517
1400                  6.9                                               299.628
1440                  2.6                                               111.975
1500                  9.2                                               400.476
1551                   .3                                                12.880
1600                  9.3                            12.4               404.719
1620                  2.2                             2.9                96.317
1670                  5.0                             6.6               217.496
1700                  8.4                            11.2               367.805
1780                  2.0                             2.7                87.294
1800                  7.4                             9.9               322.719
1851                  1.9                             2.5                81.323
1900                  7.2                             9.6               313.888
2000                  5.7                             7.5               246.541
2100                  4.7                             6.3               205.901
2200                  4.0                             5.4               175.843
2300                  3.3                             4.4               144.969
2400                  2.7                             3.6               118.959
2500                  2.2                             2.9                95.551
2600                  2.1                             2.8                92.541
2700                  1.6                             2.1                67.658
2800                  1.0                             1.3                43.347
2900                   .9                             1.3                40.986
3000                  1.0                             1.3                42.974
3100                  1.2                             1.6                52.467
3200                  1.3                             1.7                55.635

TOTAL WEIGHT                                                           4353.907

PR/PH                            2.492

PR/1700                           .591

PH/1800                           .270

SUM OF THE N-ALKANES 1600-3200 / PR+PH      9.162
```

TABLE 3.h CONT.'D

TABLE 3.h CONT.'D

Summary for Cruise 8 succession:
B. Aromatic Fraction Distribution for All Samples

Sequence	Sample Number	Treatment (Days)
1	818	(RUBH-8), 0
2	813	(RUBH-3), 122
3	814	(RUBH-4), 122
4	823	(RUBI-3), 122
5	824	(RUBI-4), 122
6	833	(RUBJ-3), 122
7	834	(RUBJ-4), 122
8	819	(RUBH-9), Sterile Weathering Control (122-day)
9	81(10)	(RUBH-10), Sterile Weathering Control (122-day)

TABLE 3.h CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	4.3	8.760
1870	17.0	34.564
1910	8.3	16.981
1980	10.8	22.079
2020	22.0	44.834
2060	4.2	8.630
2080	2.3	4.640
2110	1.7	3.480
2130	6.8	13.915
2170	6.0	12.246
2210	4.3	8.676
2220	.8	1.554
2240	1.7	3.537
2290	.8	1.567
2310	.9	1.792
2430	4.8	9.878
2520	3.2	6.616
TOTAL WEIGHT		203.748

TABLE 3.h CONT.'D

```
  NAME     PERCENT COMPOSITION        COMPONENT WEIGHT IN UG.


   1750                    0.0                     0.000

   1870                    7.3                     6.714

   1910                    4.4                     4.042

   1980                    8.9                     8.199

   2020                   21.7                    20.003

   2060                    4.3                     3.959

   2080                    2.2                     2.063

   2110                    4.4                     4.015

   2130                   17.7                    16.249

   2170                    7.7                     7.045

   2210                    5.1                     4.651

   2220                     .9                      .844

   2240                    2.1                     1.888

   2290                     .9                      .852

   2310                    2.2                     2.032

   2430                    6.5                     5.956

   2520                    3.9                     3.547


 TOTAL WEIGHT                                     92.058
```

TABLE 3.h CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	0.0	0.000
1870	8.6	5.367
1910	0.0	0.000
1980	7.9	4.905
2020	14.5	9.059
2060	1.8	1.139
2080	4.2	2.591
2110	3.2	2.001
2130	18.7	11.666
2170	8.8	5.456
2210	6.9	4.305
2220	1.2	.760
2240	5.4	3.388
2290	1.2	.774
2310	6.2	3.851
2430	6.6	4.093
2520	4.8	2.984
TOTAL WEIGHT		62.341

TABLE 3.h CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	2.8	5.861
1870	12.7	26.221
1910	5.5	11.459
1980	9.3	19.259
2020	20.6	42.508
2060	5.0	10.326
2080	3.8	7.776
2110	1.0	2.108
2130	8.9	18.337
2170	8.9	18.286
2210	6.6	13.649
2220	.7	1.526
2240	2.8	5.686
2290	.8	1.557
2310	1.7	3.430
2430	6.3	13.067
2520	2.7	5.493
TOTAL WEIGHT		206.550

TABLE 3.h CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	0.0	0.000
1870	8.8	7.672
1910	2.9	2.557
1980	8.7	7.523
2020	19.4	16.806
2060	3.4	2.918
2080	3.2	2.740
2110	4.4	3.835
2130	17.8	15.412
2170	7.4	6.424
2210	5.6	4.900
2220	1.1	.928
2240	3.8	3.287
2290	1.1	.946
2310	4.7	4.059
2430	4.4	3.784
2520	3.4	2.945
TOTAL WEIGHT		86.735

TABLE 3.h CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	2.8	2.260
1870	10.4	8.340
1910	8.2	6.572
1980	8.9	7.154
2020	23.4	18.819
2060	6.4	5.116
2080	3.4	2.696
2110	1.9	1.509
2130	7.8	6.272
2170	8.6	6.931
2210	5.6	4.505
2220	1.1	.864
2240	2.6	2.087
2290	1.1	.889
2310	1.6	1.320
2430	4.3	3.494
2520	1.9	1.561
TOTAL WEIGHT		80.390

TABLE 3.h CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	0.0	0.000
1870	7.6	5.938
1910	6.2	4.857
1980	9.5	7.452
2020	26.5	20.808
2060	6.9	5.386
2080	3.5	2.723
2110	1.7	1.367
2130	10.1	7.893
2170	9.9	7.786
2210	6.4	5.029
2220	1.2	.902
2240	3.2	2.528
2290	1.2	.907
2310	1.7	1.313
2430	2.3	1.839
2520	2.1	1.663
TOTAL WEIGHT		78.389

TABLE 3.h CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	0.0	0.000
1870	4.0	1.952
1910	3.8	1.882
1980	7.5	3.673
2020	20.2	9.889
2060	5.9	2.870
2080	4.1	2.028
2110	1.8	.894
2130	10.7	5.224
2170	11.8	5.768
2210	7.6	3.717
2220	1.4	.696
2240	3.3	1.602
2290	1.0	.467
2310	2.2	1.099
2430	7.7	3.775
2520	7.1	3.500
TOTAL WEIGHT		49.035

TABLE 3.h CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	0.0	0.000
1870	0.0	0.000
1910	0.0	0.000
1980	8.5	4.236
2020	14.2	7.051
2060	5.2	2.596
2080	3.7	1.831
2110	0.0	0.000
2130	12.0	5.962
2170	13.0	6.457
2210	9.0	4.502
2220	1.6	.811
2240	4.1	2.055
2290	1.6	.816
2310	4.7	2.349
2430	13.2	6.578
2520	9.1	4.518
TOTAL WEIGHT		49.762

TABLE 3.i

Summary for Cruise 9 succession:
A. Saturated Hydrocarbon Distribution for All Samples

Sequence	Sample Number	Treatment (Days)
1	914	(RUBK-4), 0
2	913	(RUBK-3), 124
3	914	(RUBK-4), 124
4	923	(RUBL-3), 124
5	924	(RUBL-4), 124
6	933	(RUBM-3), 124
7	934	(RUBM-4), 124
8	919	(RUBM-8), Sterile Weathering Control (124-day)
9	938	(RUBK-9), Sterile Weathering Control (124-day)

TABLE 3.i CONT.'D

```
----            1100-3200                 1600-3200          WEIGHT IN UG.

1100               0.0                                          0.000
1150               0.0                                          0.000
1200               8.7                                        494.963
1253               5.0                                        282.597
1300               7.7                                        433.329
1356               5.0                                        281.613
1400               7.4                                        420.071
1440               2.3                                        132.394
1500               7.8                                        443.648
1551               1.7                                         93.419
1600               7.2                        13.2            405.805
1620               2.5                         4.6            142.089
1670               3.6                         6.6            204.126
1700               6.2                        11.3            348.258
1780               1.4                         2.5             78.075
1800               5.0                         9.2            284.055
1851               1.7                         3.0             93.641
1900               4.7                         8.6            265.550
2000               3.6                         6.6            203.940
2100               3.1                         5.6            172.711
2200               2.6                         4.9            149.768
2300               2.2                         4.0            124.547
2400               1.9                         3.4            105.014
2500               1.5                         2.8             86.018
2600               1.5                         2.7             84.417
2700               1.2                         2.1             65.119
2800                .9                         1.6             49.945
2900                .9                         1.7             53.596
3000               1.0                         1.8             54.239
3100               1.0                         1.9             57.198
3200                .8                         1.6             47.797

TOTAL WEIGHT                                                 5657.942

PR/PH                        2.614

PR/1700                       .586

PH/1800                       .275

SUM OF THE N-ALKANES 1600-3200 / PR+PH       9.064
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TABLE 3.1 CONT.'D

```
NAME        PERCENT COMPOSITION            PERCENTAGE OF          COMPONENT
----            1100-3200                    1600-3200          WEIGHT IN UG.

1100               0.0                                                0.000
1150               0.0                                                0.000
1200               8.0                                              396.335
1253               5.5                                              271.981
1300               8.6                                              429.047
1356               5.8                                              290.772
1400               8.5                                              424.504
1440               2.6                                              129.147
1500               8.1                                              403.970
1551               0.0                                                0.000
1600               6.9                           13.0               343.522
1620               1.6                            3.0                79.131
1670               3.5                            6.7               176.299
1700               5.9                           11.1               292.225
1780               1.3                            2.5                65.892
1800               4.7                            8.9               235.131
1851               1.6                            3.0                78.172
1900               4.6                            8.6               227.067
2000               3.6                            6.7               177.229
2100               3.2                            6.0               157.058
2200               2.8                            5.3               138.497
2300               2.4                            4.5               118.357
2400               2.0                            3.8               100.998
2500               1.7                            3.2                83.270
2600               1.6                            3.0                79.139
2700               1.2                            2.2                58.573
2800                .9                            1.7                44.200
2900                .9                            1.8                46.291
3000                .9                            1.7                44.543
3100                .9                            1.7                43.674
3200                .9                            1.8                46.934

TOTAL WEIGHT                                                       4981.959

PR/PH                          2.676

PR/1700                         .603

PH/1800                         .280

SUM OF THE N-ALKANES 1600-3200 / PR+PH      9.235
```

TABLE 3.1 CONT.'D

NAME ----	PERCENT COMPOSITION 1100-3200	PERCENTAGE OF 1600-3200	COMPONENT WEIGHT IN UG.
1100	0.0		0.000
1150	0.0		0.000
1200	9.0		701.093
1253	4.6		356.185
1300	8.5		662.432
1356	3.8		296.733
1400	7.8		607.243
1440	3.9		303.723
1500	7.3		570.892
1551	1.4		110.713
1600	6.3	11.8	493.827
1620	2.4	4.5	187.620
1670	2.7	5.0	209.739
1700	5.2	9.8	407.322
1780	1.1	2.1	87.858
1800	4.4	8.2	341.466
1851	1.4	2.7	112.479
1900	4.7	8.7	361.946
2000	3.7	6.9	287.017
2100	3.1	5.8	243.319
2200	2.7	5.1	212.804
2300	2.3	4.2	176.717
2400	2.0	3.7	152.910
2500	1.8	3.3	137.206
2600	1.4	2.6	110.459
2700	1.2	2.3	94.814
2800	.9	1.8	73.124
2900	1.1	2.0	84.784
3000	1.4	2.7	112.087
3100	1.8	3.4	141.124
3200	1.8	3.4	140.142
TOTAL WEIGHT			7777.779

PR/PH 2.387

PR/1700 .515

PH/1800 .257

SUM OF THE N-ALKANES 1600-3200 / PR+PH 12.000

TABLE 3.1 CONT.'D

NAME ----	PERCENT COMPOSITION 1100-3200	PERCENTAGE OF 1600-3200	COMPONENT WEIGHT IN UG.
1100	0.0		0.000
1150	0.0		0.000
1200	8.0		439.264
1253	5.3		287.522
1300	7.9		430.153
1356	5.4		296.697
1400	7.9		434.110
1440	2.5		136.471
1500	7.9		432.868
1551	0.0		0.000
1600	7.0	12.8	385.521
1620	1.6	2.9	88.113
1670	3.6	6.6	199.749
1700	6.0	10.9	328.569
1780	1.4	2.5	75.255
1800	5.0	9.1	274.139
1851	1.7	3.1	93.388
1900	4.9	8.8	266.542
2000	3.9	7.1	214.140
2100	3.4	6.2	188.037
2200	3.0	5.5	164.513
2300	2.5	4.6	138.381
2400	2.1	3.8	113.292
2500	1.7	3.0	90.924
2600	1.6	3.0	89.470
2700	1.2	2.2	67.177
2800	.7	1.3	40.510
2900	1.0	1.8	53.308
3000	.8	1.5	44.656
3100	.9	1.6	48.232
3200	1.0	1.8	54.077
TOTAL WEIGHT			5475.080

PR/PH 2.654

PR/1700 .608

PH/1800 .275

SUM OF THE N-ALKANES 1600-3200 / PR+PH 9.314

TABLE 3.i CONT.'D

NAME	PERCENT COMPOSITION 1100-3200	PERCENTAGE OF 1600-3200	COMPONENT WEIGHT IN UG.
1100	0.0		0.000
1150	0.0		0.000
1200	3.5		216.333
1253	3.7		228.540
1300	6.1		371.538
1356	4.1		248.915
1400	7.2		439.493
1440	4.0		247.438
1500	7.9		484.276
1551	1.6		99.682
1600	5.7	9.2	348.174
1620	2.7	4.4	166.093
1670	3.1	5.0	188.333
1700	5.7	9.3	352.921
1780	1.2	2.0	76.395
1800	4.8	7.7	292.543
1851	1.6	2.6	97.218
1900	5.1	8.2	312.077
2000	4.0	6.5	248.328
2100	3.4	5.5	209.726
2200	3.0	4.8	182.636
2300	2.5	4.0	152.938
2400	2.1	3.4	130.290
2500	1.8	3.0	113.301
2600	1.5	2.4	89.527
2700	1.2	1.9	72.977
2800	1.1	1.7	66.534
2900	1.4	2.3	88.002
3000	2.6	4.2	160.142
3100	3.5	5.6	213.121
3200	3.9	6.4	242.371
TOTAL WEIGHT			6139.862

PR/PH 2.465

PR/1700 .534

PH/1800 .261

SUM OF THE N-ALKANES 1600-3200 / PR+PH 12.373

TABLE 3.1 CONT.'D

NAME	PERCENT COMPOSITION 1100-3200	PERCENTAGE OF 1600-3200	COMPONENT WEIGHT IN UG.
1100	0.0		0.000
1150	0.0		0.000
1200	9.8		639.010
1253	5.3		344.234
1300	8.5		550.625
1356	3.6		233.357
1400	7.8		510.441
1440	4.1		268.057
1500	6.8		445.379
1551	.2		11.875
1600	7.0	13.0	454.653
1620	2.4	4.5	156.204
1670	3.7	6.8	237.900
1700	6.1	11.4	399.027
1780	1.4	2.6	91.914
1800	5.2	9.7	339.696
1851	1.3	2.3	82.241
1900	5.1	9.4	330.195
2000	3.9	7.2	252.867
2100	3.1	5.7	198.902
2200	2.9	5.4	189.303
2300	2.3	4.3	149.522
2400	1.9	3.5	121.232
2500	1.5	2.8	97.114
2600	1.5	2.7	94.851
2700	1.1	2.0	69.143
2800	.7	1.3	46.316
2900	.8	1.5	53.947
3000	.8	1.5	53.979
3100	.8	1.5	51.550
3200	.6	1.1	37.634
TOTAL WEIGHT			6511.170

PR/PH	2.588
PR/1700	.596
PH/1800	.271
SUM OF THE N-ALKANES 1600-3200 / PR+PH	8.914

TABLE 3.1 CONT.'D

```
----            1100-3200                    1600-3200                    WEIGHT IN UG.

1100              0.0                                                          0.000
1150              0.0                                                          0.000
1200             10.3                                                        512.375
1253              5.9                                                        293.728
1300              9.4                                                        465.190
1356              3.9                                                        192.483
1400              8.0                                                        399.309
1440              4.2                                                        206.968
1500              6.7                                                        333.528
1551              1.5                                                         72.387
1600              6.6                          13.2                          329.070
1620              2.2                           4.4                          110.290
1670              3.4                           6.7                          167.640
1700              5.4                          10.8                          268.218
1780              1.3                           2.5                           62.224
1800              4.4                           8.8                          219.113
1851              1.5                           2.9                           72.673
1900              4.1                           8.2                          204.990
2000              3.3                           6.5                          162.498
2100              2.8                           5.5                          137.020
2200              2.7                           5.5                          135.930
2300              2.3                           4.5                          113.368
2400              1.9                           3.8                           93.680
2500              1.5                           3.0                           74.297
2600              1.5                           3.0                           73.760
2700              1.1                           2.2                           55.593
2800               .8                           1.6                           38.692
2900               .9                           1.8                           45.289
3000              1.0                           1.9                           48.264
3100               .8                           1.7                           42.006
3200               .8                           1.5                           38.427

TOTAL WEIGHT                                                                4969.011

PR/PH                          2.694

PR/1700                         .625

PH/1800                         .284

SUM OF THE N-ALKANES 1600-3200 / PR+PH     9.050
```

TABLE 3.i CONT.'D

Summary for Cruise 9 succession:
B. Aromatic Fraction Distribution for All Samples

Sequence	Sample Number	Treatment (Days)
1	914	(RUBK-4), 0
2	913	(RUBK-3), 124
3	914	(RUBK-4), 124
4	923	(RUBL-3), 124
5	924	(RUBL-4), 124
6	933	(RUBM-3), 124
7	934	(RUBM-4), 124
8	919	(RUBM-8), Sterile Weathering Control (124-day)
9	938	(RUBK-9), Sterile Weathering Control (124-day)

```
NAME     PERCENT COMPOSITION        COMPONENT WEIGHT IN UG.


  1750              4.1                        3.238

  1870             13.4                       10.524

  1910             10.7                        8.373

  1980              8.3                        6.512

  2020             20.5                       16.015

  2060              3.7                        2.876

  2080              1.9                        1.505

  2110              3.4                        2.667

  2130             14.1                       11.066

  2170              5.2                        4.104

  2210              3.7                        2.878

  2220               .7                         .509

  2240              2.2                        1.688

  2290               .7                         .516

  2310              1.0                         .795

  2430              3.6                        2.846

  2520              2.8                        2.187


TOTAL WEIGHT                                  78.300
```

TABLE 3.i CONT.'D

TABLE 3.i CONT.'D

```
  NAME    PERCENT COMPOSITION      COMPONENT WEIGHT IN UG.


   1750              0.0                      0.000

   1870              8.7                      5.769

   1910             10.7                      7.108

   1980              7.3                      4.809

   2020             24.2                     16.004

   2060              5.1                      3.365

   2080              3.6                      2.408

   2110              4.0                      2.667

   2130             16.4                     10.824

   2170              6.0                      3.999

   2210              3.5                      2.293

   2220               .6                       .407

   2240              1.5                       .988

   2290               .6                       .413

   2310               .9                       .622

   2430              4.1                      2.688

   2520              2.7                      1.786


 TOTAL WEIGHT                                66.151
```

TABLE 3.1 CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	5.0	6.777
1870	12.8	17.492
1910	8.6	11.785
1980	8.8	12.062
2020	22.1	30.230
2060	6.0	8.258
2080	3.3	4.565
2110	1.7	2.312
2130	7.1	9.721
2170	7.5	10.320
2210	5.1	6.980
2220	.9	1.250
2240	2.4	3.305
2290	.9	1.257
2310	1.4	1.901
2430	3.8	5.181
2520	2.5	3.361
TOTAL WEIGHT		136.755

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TABLE 3.1 CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	0.0	0.000
1870	7.0	4.277
1910	6.5	3.935
1980	9.1	5.541
2020	25.4	15.453
2060	7.0	4.258
2080	3.7	2.259
2110	2.1	1.282
2130	9.3	5.638
2170	9.7	5.890
2210	5.9	3.603
2220	1.3	.807
2240	2.5	1.508
2290	1.2	.716
2310	1.4	.850
2430	4.8	2.936
2520	3.0	1.843
TOTAL WEIGHT		60.796

TABLE 3.i CONT.'D

```
NAME    PERCENT COMPOSITION        COMPONENT WEIGHT IN UG.

 1750              6.7                      7.212

 1870             14.1                     15.229

 1910              9.1                      9.815

 1980              8.5                      9.218

 2020             20.9                     22.547

 2060              5.7                      6.112

 2080              2.9                      3.128

 2110              1.7                      1.806

 2130              6.4                      6.877

 2170              7.1                      7.669

 2210              4.5                      4.884

 2220               .8                       .896

 2240              1.9                      2.046

 2290               .8                       .903

 2310              1.9                      2.017

 2430              3.9                      4.254

 2520              3.0                      3.290


TOTAL WEIGHT                              107.903
```

TABLE 3.i CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	0.0	0.000
1870	9.6	11.850
1910	3.2	3.990
1980	9.6	11.916
2020	19.5	24.142
2060	3.5	4.352
2080	3.1	3.833
2110	4.3	5.353
2130	17.5	21.647
2170	7.1	8.804
2210	5.4	6.664
2220	1.0	1.182
2240	2.4	2.917
2290	1.0	1.192
2310	2.3	2.903
2430	3.5	4.342
2520	2.9	3.583
TOTAL WEIGHT		124.023

TABLE 3.i CONT.'D

```
----        1100-3200                 1600-3200          WEIGHT IN UG.

1100           0.0                                               0.000
1150           0.0                                               0.000
1200           7.2                                             415.321
1253           4.7                                             271.805
1300           7.4                                             427.267
1356           5.0                                             291.727
1400           7.7                                             443.301
1440           2.4                                             141.458
1500           8.0                                             465.078
1551            .2                                              13.020
1600           7.3                       12.7                  421.163
1620           1.7                        3.0                   99.510
1670           3.6                        6.4                  210.795
1700           6.2                       10.9                  360.773
1780           1.4                        2.5                   81.743
1800           5.3                        9.2                  305.073
1851           1.8                        3.1                  104.088
1900           5.2                        9.1                  302.146
2000           4.3                        7.4                  246.610
2100           3.7                        6.5                  215.799
2200           3.2                        5.7                  187.828
2300           2.7                        4.7                  155.299
2400           2.2                        3.9                  129.159
2500           1.7                        3.0                  100.159
2600           1.7                        2.9                   95.456
2700           1.2                        2.1                   68.080
2800            .7                        1.3                   42.675
2900            .9                        1.5                   49.911
3000            .8                        1.5                   48.988
3100            .8                        1.5                   48.125
3200            .7                        1.2                   38.816

TOTAL WEIGHT                                                  5781.175

PR/PH                       2.579

PR/1700                      .584

PH/1800                      .268

SUM OF THE N-ALKANES 1600-3200 / PR+PH     9.626
```

TABLE 3.1 CONT.'D

```
 NAME          PERCENT COMPOSITION              PERCENTAGE OF          COMPONENT
 ----              1100-3200                      1600-3200           WEIGHT IN UG.

 1100                  0.0                                                0.000
 1150                  0.0                                                0.000
 1200                 11.0                                              550.892
 1253                  5.6                                              282.424
 1300                  8.9                                              445.560
 1356                  4.4                                              222.418
 1400                  7.8                                              387.979
 1440                  2.4                                              118.017
 1500                  7.5                                              377.105
 1551                   .2                                                8.392
 1600                  6.5                             12.5             324.692
 1620                  2.3                              4.4             115.175
 1670                  3.3                              6.4             166.360
 1700                  5.6                             10.7             279.768
 1780                  1.3                              2.5              64.631
 1800                  4.7                              9.0             233.384
 1851                  1.6                              3.0              77.576
 1900                  4.7                              8.9             233.146
 2000                  3.7                              7.1             186.109
 2100                  3.2                              6.2             162.210
 2200                  2.8                              5.3             138.793
 2300                  2.3                              4.4             114.874
 2400                  1.9                              3.6              94.349
 2500                  1.6                              3.0              78.806
 2600                  1.5                              2.9              74.498
 2700                  1.1                              2.2              56.508
 2800                   .7                              1.4              36.412
 2900                   .9                              1.7              45.420
 3000                   .8                              1.5              40.006
 3100                   .8                              1.5              38.678
 3200                   .9                              1.8              45.870

 TOTAL WEIGHT                                                          5000.053

 PR/PH                             2.574

 PR/1700                            .595

 PH/1800                            .277

 SUM OF THE N-ALKANES 1600-3200 / PR+PH      9.453
```

```
RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE   RUBM, REPL NO.  8

NAME     PERCENT COMPOSITION        COMPONENT WEIGHT IN UG.


 1750           10.1                        8.735

 1870           12.1                       10.412

 1910            9.8                        8.461

 1980            7.3                        6.290

 2020           19.7                       16.964

 2060            3.9                        3.344

 2080            3.0                        2.555

 2110            3.3                        2.844

 2130           13.2                       11.418

 2170            4.9                        4.231

 2210            3.2                        2.726

 2220             .6                         .490

 2240            1.4                        1.185

 2290             .6                         .494

 2310             .9                         .734

 2430            3.9                        3.352

 2520            2.4                        2.093


TOTAL WEIGHT                               86.328
```

TABLE 3.1 CONT.'D

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TABLE 3.1 CONT.'D

```
RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE   RUBK. REPL NO   9

 NAME      PERCENT COMPOSITION        COMPONENT WEIGHT IN UG.

  1750              5.0                        5.481
  1870             12.4                       13.590
  1910              9.1                        9.939
  1980              8.5                        9.334
  2020             21.7                       23.784
  2060              5.9                        6.510
  2080              3.4                        3.684
  2110              1.7                        1.883
  2130              7.1                        7.791
  2170              7.7                        8.388
  2210              5.3                        5.797
  2220               .9                        1.038
  2240              2.0                        2.244
  2290               .8                         .888
  2310              1.3                        1.385
  2430              4.2                        4.555
  2520              2.9                        3.178

TOTAL WEIGHT                                 109.470
```

TABLE 3.j

Summary for First Nutrient Experiment:
A. Saturated Hydrocarbon Distribution for All Samples

Sequence	Sample Number	Treatment Time (Days)
1	RUAC-16	0
2	RUAC-26	0
3	RUAC-35	0
4	RUAC-36	0
5	RUAC- 7	7
6	RUAC-18	7
7	RUAC-19	7
8	RUAC-17	8
9	RUAC- 5	13
10	RUAC- 9	13
11	RUAC-14	13
12	RUAC-28	13
13	RUAC-29	13
14	RUAC-30	13
15	RUAC-25	19
16	RUAC-24	21
17	RUAC- 1	Sterile Weathering Control (21-day)
18	RUAC-57	Sterile Weathering Control (21-day)

TABLE 3.j CONT.'D

```
NAME         PERCENT COMPOSITION          PERCENTAGE OF         COMPONENT
----              1100-3200                 1600-3200         WEIGHT IN UG.

1100                 0.0                                          0.000
1150                 0.0                                          0.000
1200                 0.0                                          0.000
1253                 0.0                                          0.000
1300                 0.0                                          0.000
1356                 4.6                                        369.299
1400                 7.9                                        631.384
1440                 1.6                                        128.839
1500                 7.9                                        629.010
1551                 1.8                                        146.308
1600                 6.4                           8.4          511.828
1670                 4.1                           5.4          327.453
1700                 6.9                           9.0          549.522
1780                 1.6                           2.0          124.045
1800                 6.2                           8.2          496.484
1851                 2.4                           3.1          189.296
1900                 6.3                           8.2          501.025
2000                 5.2                           6.8          413.684
2100                 5.0                           6.6          400.120
2200                 4.1                           5.3          324.918
2300                 4.1                           5.4          329.463
2400                 3.6                           4.7          283.691
2500                 3.2                           4.2          256.963
2600                 3.2                           4.3          259.459
2700                 2.4                           3.2          193.560
2800                 2.3                           3.0          183.501
2900                 2.8                           3.7          224.449
3000                 2.1                           2.7          167.176
3100                 2.2                           2.9          176.776
3200                 2.2                           2.8          172.576

PR/PH                          2.640

PR/1700                         .596

PH/1800                         .250

SUM OF THE N-ALKANES 1600-3200 / PR+PH     12.060
```

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TABLE 3.j CONT.'D

```
NAME        PERCENT COMPOSITION          PERCENTAGE OF         COMPONENT
----           1100-3200                   1600-3200         WEIGHT IN UG.

1100              0.0                                            0.000
1150              0.0                                            0.000
1200              0.0                                            0.000
1253              0.0                                            0.000
1300              0.0                                            0.000
1356              3.8                                          285.719
1400              8.2                                          621.170
1440              1.5                                          111.517
1500              7.9                                          598.174
1551              3.2                                          242.568
1600              6.4                            8.5           484.650
1670              4.5                            5.9           339.139
1700              7.1                            9.3           535.601
1780              1.7                            2.3           130.491
1800              6.2                            8.3           473.445
1851              2.9                            3.8           217.726
1900              5.9                            7.9           450.535
2000              5.2                            6.8           390.857
2100              4.6                            6.1           347.683
2200              4.2                            5.6           322.059
2300              4.3                            5.6           323.229
2400              3.5                            4.6           264.200
2500              3.1                            4.1           232.419
2600              3.2                            4.3           245.840
2700              2.6                            3.4           196.667
2800              2.0                            2.7           153.756
2900              2.7                            3.5           202.366
3000              2.2                            2.9           164.470
3100              1.9                            2.6           146.581
3200              1.4                            1.9           108.580

PR/PH                         2.599

PR/1700                        .633

PH/1800                        .276

SUM OF THE N-ALKANES 1600-3200 / PR+PH     10.738
```

TABLE 3.j CONT.'D

NAME	PERCENT COMPOSITION 1100-3200	PERCENTAGE OF 1600-3200	COMPONENT WEIGHT IN UG.
1100	0.0		0.000
1150	0.0		0.000
1200	0.0		0.000
1253	0.0		0.000
1300	0.0		0.000
1356	5.3		378.960
1400	7.5		528.676
1440	1.8		124.439
1500	7.9		558.098
1551	3.1		221.324
1600	6.2	8.4	442.486
1670	4.5	6.0	315.706
1700	6.8	9.2	484.656
1780	1.8	2.4	127.825
1800	6.0	8.1	428.711
1851	3.0	4.0	210.560
1900	5.5	7.3	387.965
2000	5.0	6.7	355.809
2100	4.4	5.9	311.629
2200	4.3	5.8	307.611
2300	4.1	5.5	290.672
2400	4.0	5.3	282.007
2500	3.0	4.0	211.479
2600	3.2	4.3	228.827
2700	2.5	3.4	179.415
2800	2.0	2.7	142.787
2900	2.5	3.3	175.439
3000	2.2	3.0	157.180
3100	2.0	2.6	139.294
3200	1.4	1.9	102.517

PR/PH 2.470

PR/1700 .651

PH/1800 .298

SUM OF THE N-ALKANES 1600-3200 / PR+PH 10.436

TABLE 3.j CONT.'D

NAME ----	PERCENT COMPOSITION 1100-3200	PERCENTAGE OF 1600-3200	COMPONENT WEIGHT IN UG.
1100	0.0		0.000
1150	0.0		0.000
1200	0.0		0.000
1253	0.0		0.000
1300	0.0		0.000
1356	0.0		0.000
1400	9.2		702.090
1440	4.3		327.904
1500	7.2		553.599
1551	3.1		239.182
1600	6.3	8.2	477.890
1670	4.5	5.9	345.516
1700	7.0	9.2	533.299
1780	1.8	2.3	133.803
1800	6.2	8.1	471.615
1851	2.9	3.8	219.256
1900	5.9	7.8	453.555
2000	5.0	6.6	381.371
2100	4.4	5.8	338.982
2200	4.2	5.6	323.078
2300	4.1	5.4	314.185
2400	3.9	5.2	301.841
2500	3.0	3.9	228.700
2600	3.3	4.4	255.746
2700	2.6	3.4	196.370
2800	1.9	2.5	148.050
2900	2.4	3.2	184.596
3000	2.6	3.4	197.309
3100	2.3	3.0	176.231
3200	1.8	2.4	138.927

PR/PH	2.582
PR/1700	.648
PH/1800	.284
SUM OF THE N-ALKANES 1600-3200 / PR+PH	10.685

TABLE 3.j CONT.'D

NAME ----	PERCENT COMPOSITION 1100-3200	PERCENTAGE OF 1600-3200	COMPONENT WEIGHT IN UG.
1100	0.0		0.000
1150	0.0		0.000
1200	0.0		0.000
1253	0.0		0.000
1300	0.0		0.000
1356	4.7		232.072
1400	7.6		373.184
1440	2.2		106.448
1500	7.5		365.621
1551	3.4		168.770
1600	6.0	8.0	291.242
1670	5.2	7.0	254.089
1700	6.4	8.5	311.425
1780	2.2	3.0	108.606
1800	5.9	7.9	287.861
1851	3.4	4.5	164.855
1900	5.5	7.4	269.152
2000	4.9	6.5	237.425
2100	4.5	6.0	217.907
2200	3.8	5.2	188.104
2300	4.1	5.5	198.764
2400	3.4	4.6	167.192
2500	2.6	3.5	129.364
2600	3.3	4.5	163.448
2700	2.6	3.4	125.430
2800	2.1	2.8	102.040
2900	2.4	3.3	119.124
3000	2.4	3.2	115.538
3100	2.3	3.1	112.585
3200	1.7	2.3	82.149

PR/PH	2.340
PR/1700	.816
PH/1800	.377
SUM OF THE N-ALKANES 1600-3200 / PR+PH	8.599

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TABLE 3.J CONT.'D

```
NAME          PERCENT COMPOSITION        PERCENTAGE OF          COMPONENT
----              1100-3200                1600-3200          WEIGHT IN UG.

1100                 0.0                                            0.000
1150                 0.0                                            0.000
1200                 0.0                                            0.000
1253                 0.0                                            0.000
1300                 0.0                                            0.000
1356                 3.8                                          197.946
1400                 7.4                                          388.983
1440                 2.1                                          109.328
1500                 7.6                                          397.331
1551                 3.6                                          186.091
1600                 6.2                          8.2             326.249
1670                 5.0                          6.6             262.703
1700                 6.6                          8.8             346.850
1780                 2.0                          2.7             105.301
1800                 6.2                          8.2             326.252
1851                 2.6                          3.4             135.503
1900                 5.7                          7.5             298.352
2000                 4.9                          6.5             257.988
2100                 4.6                          6.2             243.580
2200                 4.1                          5.5             216.649
2300                 4.2                          5.5             218.652
2400                 3.4                          4.5             176.974
2500                 2.8                          3.7             145.072
2600                 3.0                          4.0             159.716
2700                 2.4                          3.2             126.690
2800                 2.1                          2.8             111.567
2900                 2.9                          3.9             154.117
3000                 2.3                          3.1             121.362
3100                 2.5                          3.3             129.539
3200                 1.9                          2.5              97.227

PR/PH                           2.495

PR/1700                          .757

PH/1800                          .323

SUM OF THE N-ALKANES 1600-3200 / PR+PH      9.393
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TABLE 3.j CONT.'D

```
NAME          PERCENT COMPOSITION          PERCENTAGE OF           COMPONENT
----               1100-3200                 1600-3200           WEIGHT IN UG.

1100                 0.0                                              0.000
1150                 0.0                                              0.000
1200                 0.0                                              0.000
1253                 0.0                                              0.000
1300                 0.0                                              0.000
1356                 3.9                                            302.856
1400                 8.1                                            618.548
1440                 1.6                                            120.110
1500                 7.6                                            579.786
1551                 3.1                                            236.567
1600                 6.2                           8.2              474.346
1670                 4.7                           6.2              362.094
1700                 7.0                           9.2              536.401
1780                 1.9                           2.5              147.140
1800                 6.2                           8.2              475.309
1851                 2.9                           3.8              219.688
1900                 5.6                           7.4              430.607
2000                 5.1                           6.7              391.315
2100                 4.6                           6.1              354.272
2200                 4.1                           5.4              312.000
2300                 4.3                           5.7              329.710
2400                 4.0                           5.3              309.855
2500                 3.2                           4.2              241.815
2600                 3.1                           4.2              241.507
2700                 2.6                           3.4              196.752
2800                 2.1                           2.7              157.630
2900                 2.6                           3.4              200.534
3000                 2.2                           3.0              171.693
3100                 1.9                           2.5              147.278
3200                 1.5                           2.0              118.198

PR/PH                          2.461

PR/1700                         .675

PH/1800                         .310

SUM OF THE N-ALKANES 1600-3200 / PR+PH      9.994
```

TABLE 3.j CONT.'D

NAME ----	PERCENT COMPOSITION 1100-3200	PERCENTAGE OF 1600-3200	COMPONENT WEIGHT IN UG.
1100	0.0		0.000
1150	0.0		0.000
1200	0.0		0.000
1253	0.0		0.000
1300	0.0		0.000
1356	4.1		249.066
1400	7.3		441.366
1440	2.2		136.109
1500	7.4		447.119
1551	3.4		204.626
1600	6.0	8.0	364.348
1670	4.7	6.2	285.737
1700	6.4	8.4	385.996
1780	1.9	2.5	115.939
1800	6.0	7.9	361.388
1851	3.2	4.3	195.117
1900	5.8	7.7	351.920
2000	5.2	6.8	312.556
2100	4.6	6.1	280.435
2200	3.8	5.0	229.943
2300	4.1	5.4	248.925
2400	3.5	4.6	211.170
2500	3.1	4.1	187.874
2600	3.3	4.4	201.112
2700	2.5	3.3	151.510
2800	2.0	2.7	123.217
2900	3.3	4.4	199.321
3000	2.1	2.8	129.959
3100	2.2	3.0	135.643
3200	1.6	2.2	99.817

PR/PH	2.465
PR/1700	.740
PH/1800	.321
SUM OF THE N-ALKANES 1600-3200 / PR+PH	9.896

TABLE 3.j CONT.'D

NAME ----	PERCENT COMPOSITION 1100-3200	PERCENTAGE OF 1600-3200	COMPONENT WEIGHT IN UG.
1100	0.0		0.000
1150	0.0		0.000
1200	0.0		0.000
1253	0.0		0.000
1300	0.0		0.000
1356	0.0		0.000
1400	2.0		8.593
1440	6.5		28.443
1500	4.7		20.796
1551	3.5		15.238
1600	4.0	4.8	17.380
1670 — PRISTANE	15.4	18.4	67.270 —
1700	2.3	2.8	10.216 —
1780 — PHYTANE	8.8	10.5	38.427
1800	3.7	4.5	16.358
1851	9.0	10.8	39.333
1900	3.8	4.6	16.814
2000	3.3	4.0	14.416
2100	3.0	3.6	13.290
2200	2.5	3.0	10.959
2300	3.8	4.6	16.835
2400	1.9	2.2	8.135
2500	1.7	2.1	7.504
2600	3.6	4.3	15.837
2700	3.3	4.0	14.518
2800	0.0	0.0	0.000
2900	0.0	0.0	0.000
3000	5.7	6.8	24.758
3100	7.5	9.0	32.777
3200	0.0	0.0	0.000

PR/PH 1.751

PR/1700 6.585

PH/1800 2.349

SUM OF THE N-ALKANES 1600-3200 / PR+PH 2.079

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TABLE 3.j CONT.'D

```
NAME       PERCENT COMPOSITION              PERCENTAGE OF        COMPONENT
----           1100-3200                      1600-3200       WEIGHT IN UG.

1100              0.0                                              0.000
1150              0.0                                              0.000
1200              0.0                                              0.000
1253              0.0                                              0.000
1300              0.0                                              0.000
1356              6.3                                            196.037
1400              6.9                                            215.885
1440              3.1                                             96.915
1500              6.6                                            204.719
1551              5.0                                            155.091
1600              5.1                                7.0         158.689
1670              7.9                               10.9         245.746
1700              5.4                                7.5         167.894
1780              3.8                                5.3         119.786
1800              5.2                                7.2         161.935
1851              4.8                                6.7         151.363
1900              4.6                                6.4         144.619
2000              4.1                                5.6         126.964
2100              4.0                                5.5         123.291
2200              3.2                                4.4          98.579
2300              3.6                                5.0         111.977
2400              2.8                                3.9          86.865
2500              1.9                                2.6          59.310
2600              3.3                                4.6         102.849
2700              2.3                                3.1          70.729
2800              1.9                                2.6          59.524
2900              2.2                                3.1          69.465
3000              2.0                                2.8          63.717
3100              2.4                                3.3          74.803
3200              1.7                                2.4          54.458

PR/PH                         2.052

PR/1700                       1.464

PH/1800                        .740

SUM OF THE N-ALKANES 1600-3200 / PR+PH      4.748
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TABLE 3.j CONT.'D

NAME ----	PERCENT COMPOSITION 1100-3200	PERCENTAGE OF 1600-3200	COMPONENT WEIGHT IN UG.
1100	0.0		0.000
1150	0.0		0.000
1200	0.0		0.000
1253	0.0		0.000
1300	0.0		0.000
1356	5.6		67.250
1400	2.8		33.232
1440	5.6		67.468
1500	3.2		38.102
1551	1.9		23.084
1600	3.2	3.9	38.072
1670	13.2	16.3	158.723
1700	3.1	3.8	37.048
1780	6.8	8.4	81.745
1800	4.0	4.9	47.473
1851	6.0	7.4	71.972
1900	4.2	5.2	50.941
2000	3.3	4.0	39.071
2100	3.9	4.8	46.737
2200	3.2	3.9	37.964
2300	3.9	4.9	47.267
2400	2.4	3.0	28.986
2500	2.0	2.5	24.034
2600	4.3	5.3	51.460
2700	2.6	3.3	31.770
2800	2.0	2.5	24.595
2900	3.5	4.3	41.478
3000	3.1	3.8	36.974
3100	3.7	4.6	44.743
3200	2.5	3.1	29.888

PR/PH	1.942
PR/1700	4.284
PH/1800	1.722
SUM OF THE N-ALKANES 1600-3200 / PR+PH	2.738

TABLE 3.j CONT.'D

NAME	PERCENT COMPOSITION 1100-3200	PERCENTAGE OF 1600-3200	COMPONENT WEIGHT IN UG.
1100	0.0		0.000
1150	0.0		0.000
1200	0.0		0.000
1253	0.0		0.000
1300	0.0		0.000
1356	9.2		396.903
1400	6.2		268.414
1440	2.0		86.076
1500	6.3		272.875
1551	4.1		176.380
1600	5.2	7.2	224.970
1670	5.3	7.4	230.392
1700	5.7	7.8	244.907
1780	2.7	3.8	117.698
1800	5.3	7.4	230.110
1851	3.9	5.4	169.926
1900	5.0	7.0	217.823
2000	4.6	6.3	198.074
2100	4.2	5.8	180.642
2200	3.5	4.8	149.792
2300	4.0	5.5	173.042
2400	3.3	4.5	140.845
2500	2.6	3.6	113.880
2600	3.4	4.7	148.026
2700	2.6	3.6	111.727
2800	2.1	2.9	89.338
2900	2.7	3.8	118.513
3000	2.2	3.1	96.329
3100	2.4	3.3	103.776
3200	1.6	2.3	70.717

PR/PH	1.957
PR/1700	.941
PH/1800	.511
SUM OF THE N-ALKANES 1600-3200 / PR+PH	7.505

TABLE 3.j CONT.'D

NAME ----	PERCENT COMPOSITION 1100-3200	PERCENTAGE OF 1600-3200	COMPONENT WEIGHT IN UG.
1100	0.0		0.000
1150	0.0		0.000
1200	0.0		0.000
1253	0.0		0.000
1300	0.0		0.000
1356	5.8		90.555
1400	4.0		61.253
1440	8.2		127.040
1500	5.4		84.263
1551	4.9		75.577
1600	4.7	6.6	72.816
1670	8.6	12.0	132.915
1700	4.7	6.5	72.568
1780	4.1	5.7	62.776
1800	4.6	6.4	71.012
1851	3.9	5.4	60.187
1900	4.2	5.9	65.536
2000	3.6	5.0	55.600
2100	3.3	4.7	51.623
2200	3.4	4.8	53.000
2300	3.2	4.4	48.815
2400	2.4	3.3	36.587
2500	1.8	2.5	28.186
2600	3.2	4.4	48.792
2700	2.0	2.8	30.849
2800	1.3	1.8	19.981
2900	3.7	5.2	57.184
3000	3.6	5.0	55.017
3100	3.6	5.0	55.813
3200	1.9	2.7	30.077

PR/PH 2.117

PR/1700 1.832

PH/1800 .884

SUM OF THE N-ALKANES 1600-3200 / PR+PH 4.361

TABLE 3.j CONT.'D

```
NAME        PERCENT COMPOSITION          PERCENTAGE OF          COMPONENT
----           1100-3200                   1600-3200          WEIGHT IN UG.

1100              0.0                                              0.000
1150              0.0                                              0.000
1200              0.0                                              0.000
1253              0.0                                              0.000
1300              0.0                                              0.000
1356              5.8                                            139.974
1400              6.8                                            164.721
1440              3.7                                             88.185
1500              6.6                                            158.126
1551              4.4                                            107.189
1600              5.4                         7.5                131.060
1670              7.3                        10.0                176.051
1700              5.5                         7.6                133.620
1780              3.3                         4.6                 79.964
1800              5.3                         7.3                128.524
1851              4.4                         6.0                105.194
1900              5.0                         6.8                119.762
2000              4.1                         5.7                 99.904
2100              3.9                         5.4                 94.067
2200              3.5                         4.8                 84.282
2300              3.5                         4.9                 85.136
2400              2.7                         3.7                 64.547
2500              2.2                         3.0                 52.026
2600              3.1                         4.3                 74.882
2700              2.3                         3.1                 55.076
2800              1.7                         2.3                 39.949
2900              2.3                         3.2                 56.560
3000              2.5                         3.5                 61.351
3100              2.8                         3.9                 68.365
3200              1.8                         2.5                 44.577

PR/PH                         2.202

PR/1700                       1.318

PH/1800                        .622

SUM OF THE N-ALKANES 1600-3200 / PR+PH      5.444
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TABLE 3.j CONT.'D

```
NAME          PERCENT COMPOSITION          PERCENTAGE OF          COMPONENT
----               1100-3200                  1600-3200           WEIGHT IN UG.

1100                  0.0                                             0.000
1150                  0.0                                             0.000
1200                  0.0                                             0.000
1253                  0.0                                             0.000
1300                  0.0                                             0.000
1356                  0.0                                             0.000
1400                  0.0                                             0.000
1440                  0.0                                             0.000
1500                   .8                                             3.552
1551                  1.1                                             5.018
1600                  3.4                           3.4              15.239
1670                 10.9                          11.1              49.237
1700                  3.5                           3.6              15.757
1780                  8.1                           8.3              36.684
1800                  4.8                           4.9              21.785
1851                  7.3                           7.4              32.665
1900                  5.3                           5.4              23.838
2000                  4.3                           4.4              19.567
2100                 10.9                          11.2              49.281
2200                  3.6                           3.7              16.348
2300                  4.8                           4.9              21.437
2400                  2.6                           2.6              11.679
2500                  1.7                           1.7               7.617
2600                  6.4                           6.5              28.877
2700                  2.9                           2.9              12.877
2800                  3.2                           3.2              14.324
2900                  7.6                           7.8              34.256
3000                  0.0                           0.0               0.000
3100                  6.7                           6.9              30.374
3200                  0.0                           0.0               0.000

PR/PH                          1.342

PR/1700                        3.125

PH/1800                        1.684

SUM OF THE N-ALKANES 1600-3200 / PR+PH       3.762
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TABLE 3.j CONT.'D

NAME ----	PERCENT COMPOSITION 1100-3200	PERCENTAGE OF 1600-3200	COMPONENT WEIGHT IN UG.
1100	0.0		0.000
1150	0.0		0.000
1200	0.0		0.000
1253	0.0		0.000
1300	0.0		0.000
1356	7.9		81.330
1400	3.1		31.627
1440	8.6		88.621
1500	4.2		43.154
1551	4.7		48.819
1600	3.8	5.4	39.550
1670	17.4	24.3	178.874
1700	2.6	3.7	27.076
1780	9.0	12.6	92.436
1800	3.3	4.7	34.486
1851	7.3	10.3	75.649
1900	3.0	4.2	30.969
2000	2.6	3.7	26.922
2100	2.8	4.0	29.265
2200	2.1	2.9	21.351
2300	2.7	3.8	27.965
2400	1.6	2.2	16.220
2500	1.2	1.7	12.231
2600	2.3	3.3	24.011
2700	1.5	2.1	15.626
2800	0.0	0.0	0.000
2900	4.2	5.9	43.068
3000	0.0	0.0	0.000
3100	0.0	0.0	0.000
3200	3.9	5.5	40.498

PR/PH 1.935

PR/1700 6.606

PH/1800 2.680

SUM OF THE N-ALKANES 1600-3200 / PR+PH 1.435

TABLE 3.j CONT.'D

NAME	PERCENT COMPOSITION 1100-3200 ↓	PERCENTAGE OF 1600-3200	COMPONENT WEIGHT IN UG. ↓
→ 1100	0.0		0.000
1150	0.0		0.000
1200	0.0		0.000
1253	0.0		0.000
1300	0.0		0.000
1356	4.9		276.315
1400	6.5		364.734
1440	1.9		105.694
1500	7.2		404.773
1551	3.2		180.150
1600	6.2	8.1	347.985
1670	4.7	6.2	266.747
1700	7.0	9.1	393.783
1780	2.0	2.6	111.454
1800	6.1	8.0	345.534
1851	3.0	3.9	168.405
1900	5.7	7.4	319.037
2000	5.0	6.5	281.355
2100	4.4	5.8	250.537
2200	4.2	5.5	235.710
2300	4.2	5.5	236.055
2400	4.0	5.2	223.550
2500	3.1	4.0	172.851
2600	3.5	4.6	197.556
2700	2.6	3.5	148.727
2800	2.0	2.6	114.051
2900	2.6	3.4	146.960
3000	2.3	3.0	128.453
3100	2.3	3.0	130.637
3200	1.6	2.1	88.542

PR/PH 2.393

PR/1700 .677

PH/1800 .323

SUM OF THE N-ALKANES 1600-3200 / PR+PH 9.945

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TABLE 3.j CONT.'D

NAME ----	PERCENT COMPOSITION 1100-3200	PERCENTAGE OF 1600-3200	COMPONENT WEIGHT IN UG.
1100	0.0		0.000
1150	0.0		0.000
1200	0.0		0.000
1253	0.0		0.000
1300	0.0		0.000
1356	5.2		445.119
1400	7.7		663.423
1440	5.3		455.315
1500	7.6		651.674
1551	3.0		260.879
1600	6.1	8.6	526.396
1670	3.9	5.5	335.467
1700	6.5	9.2	561.357
1780	1.6	2.2	132.887
1800	5.9	8.3	505.741
1851	2.4	3.4	204.489
1900	5.8	8.1	495.591
2000	5.1	7.1	433.699
2100	4.5	6.4	389.141
2200	3.7	5.3	321.097
2300	4.0	5.6	340.259
2400	3.3	4.6	282.113
2500	3.0	4.3	259.163
2600	3.2	4.5	274.456
2700	2.3	3.3	199.828
2800	2.0	2.8	171.098
2900	2.4	3.4	208.612
3000	1.9	2.7	164.679
3100	1.9	2.7	166.982
3200	1.4	2.0	122.492

PR/PH 2.524

PR/1700 .598

PH/1800 .263

SUM OF THE N-ALKANES 1600-3200 / PR+PH 11.578

TABLE 3.j CONT.'D

Summary for First Nutrient Experiment:
B. Aromatic Hydrocarbon Distribution for All Samples

Sequence	Sample Number	Treatment Time (Days)
1	RUAC-16	0
2	RUAC-26	0
3	RUAC-35	0
4	RUAC-36	0
5	RUAC- 7	7
6	RUAC-18	7
7	RUAC-19	7
8	RUAC-17	8
9	RUAC- 5	13
10	RUAC- 9	13
11	RUAC-14	13
12	RUAC-28	13
13	RUAC-28	13
14	RUAC-30	13
15	RUAC-25	19
16	RUAC-40	21
17	RUAC-40	Sterile Weathering Control (21-day)
18	RUAC-57	Sterile Weathering Control (21-day)

TABLE 3.J CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	3.9	5.434
1870	12.7	17.767
1910	8.3	11.531
1980	8.3	11.617
2020	21.4	29.857
2060	4.4	6.089
2080	2.2	3.003
2110	0.0	0.000
2130	15.4	21.479
2170	5.8	8.078
2210	4.4	6.149
2220	.9	1.196
2240	1.8	2.443
2290	.4	.505
2310	5.9	8.229
2430	4.4	6.156
2520	0.0	0.000
		134.5

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TABLE 3.j CONT.'D

```
NAME     PERCENT COMPOSITION        COMPONENT WEIGHT IN UG.

 1750                   3.7                  7.792

 1870                  12.6                 26.576

 1910                   7.7                 16.189

 1980                   8.2                 17.241

 2020                  20.8                 43.782

 2060                   4.5                  9.357

 2080                   2.3                  4.877

 2110                   0.0                  0.000

 2130                  15.1                 31.668

 2170                   5.7                 12.004

 2210                   4.5                  9.399

 2220                    .2                   .373

 2240                   2.0                  4.118

 2290                    .3                   .561

 2310                   1.0                  2.120

 2430                   6.4                 13.535

 2520                   5.0                 10.549
```

210.2

TABLE 3.j CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	5.1	5.870
1870	12.8	14.591
1910	9.0	10.250
1980	7.4	8.490
2020	21.1	24.162
2060	4.2	4.838
2080	1.8	2.082
2110	0.0	0.000
2130	15.0	17.118
2170	5.4	6.187
2210	4.0	4.534
2220	.1	.152
2240	2.1	2.370
2290	.4	.490
2310	1.0	1.153
2430	6.1	6.949
2520	4.5	5.152
		114.6

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TABLE 3.j CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	3.4 ✓	5.320
1870	11.7	18.407
1910	7.3 ✓	11.520
1980	8.2	12.890
2020	20.8	32.719
2060	4.4	6.849
2080	2.3	3.682
2110	0.0	0.000
2130	15.6	24.491
2170	6.0	9.406
2210	4.5	7.141
2220	1.3 ✓	2.020
2240	2.0	3.179
2290	.4	.658
2310	1.0	1.577
2430	6.1	9.598
2520	5.0	7.945
		157.3

TABLE 3.j CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	2.7	2.633
1870	10.4	10.175
1910	7.9	7.681
1980	7.6	7.400
2020	21.7	21.235
2060	4.5	4.391
2080	2.0	1.986
2110	0.0	0.000
2130	15.9	15.528
2170	5.9	5.795
2210	4.5	4.390
2220	.2	.147
2240	2.2	2.183
2290	.0	.045
2310	2.3	2.229
2430	6.9	6.739
2520	5.4	5.254
		97.7

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TABLE 3.j CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	3.5	4.354
1870	12.8	15.851
1910	6.8	8.385
1980	8.4	10.380
2020	20.3	25.128
2060	4.3	5.292
2080	2.4	2.964
2110	0.0	0.000
2130	15.2	18.813
2170	5.7	7.055
2210	4.6	5.758
2220	.2	.193
2240	2.8	3.501
2290	.6	.724
2310	1.2	1.459
2430	6.5	8.077
2520	4.8	5.928
		124.1

TABLE 3.j CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	2.7	2.755
1870	11.4	11.449
1910	5.7	5.704
1980	8.0	8.098
2020	19.6	19.775
2060	4.3	4.363
2080	2.6	2.629
2110	0.0	0.000
2130	15.7	15.777
2170	6.3	6.325
2210	5.0	5.023
2220	.2	.158
2240	1.9	1.917
2290	.4	.373
2310	2.8	2.783
2430	7.9	7.940
2520	5.7	5.725
		100.8

TABLE 3.j CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	3.6	4.200
1870	11.0	12.965
1910	7.5	8.800
1980	7.7	9.034
2020	21.1	24.803
2060	4.3	5.027
2080	2.2	2.644
2110	0.0	0.000
2130	15.9	18.691
2170	6.0	7.028
2210	4.6	5.413
2220	.1	.158
2240	2.3	2.688
2290	.3	.337
2310	1.0	1.178
2430	7.0	8.218
2520	5.4	6.408
		117.5

TABLE 3.j CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	2.2	.988
1870	7.9	3.488
1910	7.7	3.413
1980	5.2	2.288
2020	23.8	10.537
2060	4.8	2.126
2080	2.0	.896
2110	0.0	0.000
2130	16.0	7.054
2170	5.9	2.589
2210	5.5	2.434
2220	.2	.079
2240	1.6	.692
2290	.3	.141
2310	1.4	.618
2430	8.8	3.896
2520	6.7	2.955
		44.2

TABLE 3.j CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	2.4	1.843
1870	10.2	7.876
1910	6.8	5.262
1980	7.6	5.870
2020	22.1	17.013
2060	4.4	3.430
2080	2.3	1.762
2110	0.0	0.000
2130	16.7	12.858
2170	6.2	4.777
2210	5.0	3.835
2220	.2	.129
2240	2.0	1.570
2290	.4	.325
2310	1.1	.866
2430	7.3	5.624
2520	5.3	4.097
		78.2

TABLE 3.j CONT.'D

```
NAME    PERCENT COMPOSITION       COMPONENT WEIGHT IN UG.

 1750                3.5                     2.160

 1870               10.2                     6.259

 1910                7.8                     4.762

 1980                6.6                     4.056

 2020               23.2                    14.231

 2060                4.7                     2.882

 2080                2.5                     1.526

 2110                0.0                     0.000

 2130               15.0                     9.228

 2170                5.9                     3.607

 2210                5.1                     3.150

 2220                 .2                      .106

 2240                1.8                     1.095

 2290                 .4                      .227

 2310                1.2                      .738

 2430                7.2                     4.420

 2520                4.7                     2.896
                                           60.5
```

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TABLE 3.j CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	2.8	2.997
1870	11.2	11.758
1910	7.5	7.880
1980	7.9	8.291
2020	21.4	22.574
2060	4.5	4.750
2080	2.2	2.309
2110	0.0	0.000
2130	16.0	16.894
2170	6.0	6.343
2210	4.6	4.882
2220	.2	.164
2240	1.8	1.902
2290	.4	.394
2310	1.1	1.139
2430	7.0	7.412
2520	5.4	5.683
		105.4

TABLE 3.j CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	3.1	1.364
1870	9.8	4.296
1910	4.0	1.738
1980	7.0	3.056
2020	18.4	8.102
2060	3.8	1.681
2080	2.7	1.170
2110	0.0	0.000
2130	15.7	6.910
2170	6.4	2.794
2210	5.8	2.557
2220	.2	.107
2240	3.2	1.424
2290	.9	.410
2310	3.2	1.391
2430	9.1	4.004
2520	6.6	2.910
		42.8

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TABLE 3.j CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	3.7	2.027
1870	11.8	6.405
1910	7.6	4.121
1980	7.3	3.988
2020	21.1	11.484
2060	4.4	2.389
2080	2.4	1.306
2110	0.0	0.000
2130	15.1	8.198
2170	5.6	3.060
2210	4.8	2.630
2220	.2	.087
2240	2.0	1.076
2290	.4	.207
2310	1.1	.582
2430	7.1	3.853
2520	5.4	2.932
		54.4

TABLE 3.j CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	0.0	0.000
1870	5.4	1.741
1910	6.5	2.092
1980	4.4	1.425
2020	25.0	8.023
2060	4.9	1.565
2080	2.4	.754
2110	0.0	0.000
2130	17.1	5.486
2170	6.2	1.983
2210	6.0	1.923
2220	.2	.065
2240	3.4	1.075
2290	.7	.222
2310	3.6	1.169
2430	8.4	2.689
2520	5.7	1.827
		32.1

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TABLE 3.j CONT.'D

```
NAME      PERCENT COMPOSITION       COMPONENT WEIGHT IN UG.

 1750                 2.4                         1.564
 1870                10.8                         7.146
 1910                 4.6                         3.041
 1980                 7.4                         4.939
 2020                19.4                        12.896
 2060                 4.1                         2.741
 2080                 2.8                         1.889
 2110                 0.0                         0.000
 2130                15.9                        10.550
 2170                 6.4                         4.250
 2210                 6.2                         4.106
 2220                  .2                          .138
 2240                 2.2                         1.488
 2290                  .5                          .308
 2310                 3.5                         2.336
 2430                 8.6                         5.684
 2520                 5.0                         3.334
```

66.2

TABLE 3.j CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
→1750	.5	.595
→1870	8.4	10.462
→1910	5.8	7.246
→1980	7.5	9.352
2020	21.1	26.168
2060	4.5	5.634
2080	2.5	3.057
2110	0.0	0.000
2130	17.6	21.824
2170	6.8	8.444
2210	5.4	6.651
2220	.3	.343
2240	2.6	3.168
2290	.5	.622
2310	2.9	3.652
2430	7.9	9.795
2520	5.6	6.912
		123.0

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TABLE 3.j CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	1.9	1.847
1870	9.9	9.607
1910	7.4	7.115
1980	7.2	6.917
2020	21.8	21.060
2060	4.3	4.194
2080	1.8	1.734
2110	0.0	0.000
2130	16.3	15.782
2170	5.8	5.638
2210	4.3	4.151
2220	.9	.886
2240	3.6	3.508
2290	.7	.705
2310	2.4	2.331
2430	6.8	6.587
2520	4.8	4.663
		96.6

TABLE 3.k

Summary for Second Nutrient Experiment:
A. Saturated Hydrocarbon Distribution for All Samples

Sequence	Sample Number	Treatment Time (Hours)
1	RUBN-37	0
2	RUBN-38	0
3	RUBN-10	29.5
4	RUBN-32	29.5
5	RUBN-12	80.0
6	RUBN-15	80.0
7	RUBN-31	80.0
8	RUBN-35	99.0
9	RUBN-36	99.0
10	RUBN- 7	142.5
11	RUBN-17	142.5
12	RUBN-33	142.5
13	RUBN- 4	164.0
14	RUBN-11	164.0
15	RUBN-16	164.0
16	RUBN- 9	213.5
17	RUBN-19	213.5
18	RUBN-14	250.0
19	RUBN-22	250.0
20	RUBN-13	384.0
21	RUBN-28	384.0
22	RUBN-37	384.0
23	RUBN-40	384.0

TABLE 3.k CONT.'D

NAME ----	PERCENT COMPOSITION 1100-3200	PERCENTAGE OF 1600-3200	COMPONENT WEIGHT IN UG.
1100	0.0		0.000
1150	0.0		0.000
1200	8.4		797.252
1253	5.5		520.581
1300	7.6		724.082
1356	5.8		553.309
1400	8.1		769.001
1440	2.4		231.540
1500	7.8		737.723
1551	.8		77.189
1600	6.6	12.4	630.678
1620	1.4	2.7	135.910
1670	3.9	7.3	369.715
1700	5.9	11.0	561.083
1780	1.9	3.6	184.400
1800	5.1	9.4	480.426
1851	1.8	3.3	166.761
1900	4.2	7.8	396.078
2000	3.5	6.5	328.173
2100	3.0	5.6	285.293
2200	2.7	5.1	257.792
2300	2.4	4.6	231.995
2400	2.0	3.8	190.735
2500	1.7	3.1	157.924
2600	1.6	2.9	148.847
2700	1.3	2.4	122.851
2800	.9	1.8	90.049
2900	1.1	2.0	99.736
3000	.9	1.7	87.975
3100	.9	1.6	82.778
3200	.8	1.5	75.196
TOTAL WEIGHT			9495.072

PR/PH 2.005

PR/1700 .659

PH/1800 .384

SUM OF THE N-ALKANES 1600-3200 / PR+PH 7.629

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TABLE 3.k CONT.'D

```
NAME        PERCENT COMPOSITION          PERCENTAGE OF        COMPONENT
----            1100-3200                  1600-3200          WEIGHT IN UG.

1100          0.0                                                  0.000
1150          0.0                                                  0.000
1200          8.3                                                879.773
1253          5.3                                                558.504
1300          7.1                                                750.904
1356          6.1                                                652.270
1400          8.2                                                872.718
1440          2.2                                                235.047
1500          7.8                                                826.768
1551           .7                                                 76.393
1600          6.6                             12.1               697.204
1620          1.4                              2.6               152.079
1670          3.8                              7.0               402.662
1700          6.0                             11.1               636.898
1780          2.0                              3.6               209.898
1800          5.1                              9.5               545.286
1851          2.0                              3.6               208.930
1900          4.2                              7.8               450.042
2000          3.6                              6.5               376.592
2100          3.0                              5.6               321.464
2200          2.7                              5.0               290.449
2300          2.5                              4.5               260.059
2400          2.0                              3.7               212.579
2500          1.6                              3.0               171.724
2600          1.6                              3.0               170.518
2700          1.3                              2.5               141.333
2800          1.1                              2.1               120.880
2900          1.1                              2.1               118.368
3000          1.0                              1.8               101.661
3100           .8                              1.5                87.963
3200           .7                              1.4                78.384

TOTAL WEIGHT                                                   10607.351

PR/PH                      1.918

PR/1700                     .632

PH/1800                     .385

SUM OF THE N-ALKANES 1600-3200 / PR+PH     7.806
```

TABLE 3.k CONT.'D

NAME ----	PERCENT COMPOSITION 1100-3200	PERCENTAGE OF 1600-3200	COMPONENT WEIGHT IN UG.
1100	0.0		0.000
1150	0.0		0.000
1200	10.1		1139.090
1253	5.1		575.621
1300	9.0		1006.460
1356	3.7		419.113
1400	7.9		881.676
1440	3.8		429.103
1500	7.3		817.580
1551	1.5		168.348
1600	6.2	12.0	692.444
1620	2.3	4.4	255.533
1670	2.4	4.7	269.240
1700	4.9	9.5	547.203
1780	1.0	1.9	112.283
1800	4.2	8.1	470.854
1851	1.3	2.5	146.568
1900	4.4	8.6	497.305
2000	3.6	6.9	402.320
2100	3.0	5.8	338.456
2200	2.6	5.1	295.177
2300	2.2	4.3	246.555
2400	1.9	3.6	210.554
2500	1.6	3.2	184.094
2600	1.3	2.6	148.667
2700	1.1	2.2	125.071
2800	.9	1.7	100.656
2900	1.1	2.2	125.334
3000	1.6	3.0	176.230
3100	2.1	4.0	231.806
3200	1.9	3.7	212.677
TOTAL WEIGHT			11226.019

PR/PH 2.398

PR/1700 .492

PH/1800 .238

SUM OF THE N-ALKANES 1600-3200 / PR+PH 13.120

TABLE 3.k CONT.'D

```
NAME              PERCENT COMPOSITION          PERCENTAGE OF          COMPONENT
----                  1100-3200                  1600-3200          WEIGHT IN UG.

1100                     0.0                                               0.000
1150                     0.0                                               0.000
1200                     7.4                                             763.266
1253                     4.0                                             418.204
1300                     8.1                                             836.758
1356                     5.1                                             527.012
1400                     9.6                                             991.164
1440                     3.8                                             397.604
1500                     8.9                                             923.553
1551                     2.5                                             264.195
1600                     6.3                           12.4              649.284
1620                     1.8                            3.5              181.594
1670                     3.2                            6.4              336.378
1700                     5.3                           10.5              552.690
1780                     1.1                            2.2              117.286
1800                     4.4                            8.7              459.110
1851                     1.0                            1.9              100.494
1900                     4.1                            8.1              425.004
2000                     3.4                            6.8              355.713
2100                     2.8                            5.6              294.815
2200                     2.6                            5.1              269.631
2300                     2.3                            4.6              242.744
2400                     2.0                            3.9              205.095
2500                     1.6                            3.1              164.913
2600                     1.7                            3.3              175.226
2700                     1.4                            2.7              141.887
2800                     1.1                            2.2              112.902
2900                     1.3                            2.5              130.664
3000                     1.1                            2.1              110.401
3100                      .9                            1.8               92.557
3200                     1.3                            2.5              132.386

TOTAL WEIGHT                                                           10372.531

PR/PH                              2.868

PR/1700                             .609

PH/1800                             .255

SUM OF THE N-ALKANES 1600-3200 / PR+PH     9.952
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TABLE 3.k CONT.'D

```
NAME            PERCENT COMPOSITION            PERCENTAGE OF          COMPONENT
----                1100-3200                    1600-3200          WEIGHT IN UG.

1100                   0.0                                                0.000
1150                   0.0                                                0.000
1200                   9.3                                              849.093
1253                   5.0                                              462.272
1300                   8.7                                              797.419
1356                   3.3                                              301.843
1400                   8.4                                              766.637
1440                   3.7                                              339.055
1500                   6.9                                              635.546
1551                    .5                                               46.517
1600                   6.0                          11.1                551.857
1620                   2.3                           4.3                215.463
1670                   2.7                           4.9                244.268
1700                   4.9                           9.1                450.318
1780                   1.1                           2.0                 99.843
1800                   4.4                           8.1                401.098
1851                   1.5                           2.9                141.794
1900                   5.0                           9.2                456.594
2000                   4.0                           7.4                369.784
2100                   3.4                           6.3                315.112
2200                   2.9                           5.4                266.926
2300                   2.5                           4.5                224.741
2400                   2.1                           3.8                191.396
2500                   1.8                           3.4                168.774
2600                   1.4                           2.7                132.762
2700                   1.2                           2.2                108.025
2800                    .9                           1.7                 85.379
2900                   1.0                           1.8                 90.885
3000                   1.0                           1.8                 90.829
3100                   1.8                           3.4                168.799
3200                   2.1                           4.0                196.977

TOTAL WEIGHT                                                           9170.007

PR/PH                            2.447

PR/1700                           .542

PH/1800                           .249

SUM OF THE N-ALKANES 1600-3200 / PR+PH    12.410
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TABLE 3.k CONT.'D

NAME	PERCENT COMPOSITION 1100-3200	PERCENTAGE OF 1600-3200	COMPONENT WEIGHT IN UG.
1100	0.0		0.000
1150	0.0		0.000
1200	9.3		549.363
1253	3.6		212.123
1300	8.6		503.522
1356	5.4		316.159
1400	6.0		353.752
1440	3.9		230.306
1500	7.3		430.257
1551	.3		17.741
1600	6.1	10.9	356.610
1620	2.5	4.4	144.321
1670	3.1	5.7	185.015
1700	5.0	9.0	293.925
1780	1.2	2.1	69.026
1800	4.5	8.2	266.832
1851	1.8	3.2	103.985
1900	5.4	9.8	320.499
2000	4.3	7.7	251.228
2100	3.7	6.7	219.460
2200	3.1	5.6	184.501
2300	2.7	4.8	155.960
2400	2.3	4.2	136.520
2500	2.1	3.7	122.310
2600	1.6	2.9	94.802
2700	1.2	2.1	67.726
2800	1.0	1.8	57.965
2900	1.1	2.0	65.099
3000	.7	1.2	38.454
3100	1.3	2.3	76.447
3200	1.0	1.8	58.427
TOTAL WEIGHT			5882.333

PR/PH 2.680

PR/1700 .629

PH/1800 .259

SUM OF THE N-ALKANES 1600-3200 / PR+PH 10.891

TABLE 3.k CONT.'D

NAME ----	PERCENT COMPOSITION 1100-3200	PERCENTAGE OF 1600-3200	COMPONENT WEIGHT IN UG.
1100	0.0		0.000
1150	0.0		0.000
1200	8.7		478.571
1253	3.5		194.285
1300	8.3		457.349
1356	3.3		179.177
1400	9.0		496.853
1440	4.1		227.087
1500	7.3		403.674
1551	.6		31.104
1600	6.1	11.0	332.728
1620	2.6	4.7	141.886
1670	3.2	5.8	175.634
1700	4.9	9.0	272.041
1780	1.2	2.2	66.021
1800	4.3	7.9	238.366
1851	1.7	3.1	92.539
1900	5.2	9.4	283.908
2000	4.2	7.6	229.148
2100	3.7	6.7	202.085
2200	3.2	5.7	173.689
2300	2.7	4.8	146.535
2400	2.4	4.3	129.531
2500	2.1	3.9	117.810
2600	1.7	3.1	94.133
2700	1.4	2.5	74.718
2800	1.1	1.9	57.755
2900	1.2	2.1	64.305
3000	.7	1.2	37.215
3100	1.1	1.9	58.164
3200	.7	1.3	40.537
TOTAL WEIGHT			5496.848

PR/PH 2.660

PR/1700 .646

PH/1800 .277

SUM OF THE N-ALKANES 1600-3200 / PR+PH 10.563

TABLE 3.k CONT.'D

```
NAME          PERCENT COMPOSITION          PERCENTAGE OF        COMPONENT
----              1100-3200                  1600-3200        WEIGHT IN UG.

1100                 0.0                                             0.000
1150                 0.0                                             0.000
1200                 6.6                                           570.222
1253                 4.1                                           356.122
1300                 7.0                                           602.269
1356                 5.1                                           436.255
1400                 7.7                                           663.392
1440                 6.0                                           513.829
1500                 7.2                                           617.848
1551                 2.9                                           245.927
1600                 5.7                         10.6              487.415
1620                 1.5                          2.8              126.998
1670                 3.8                          7.2              328.490
1700                 5.2                          9.7              446.010
1780                 1.7                          3.2              146.009
1800                 4.6                          8.5              391.618
1851                 1.9                          3.6              165.940
1900                 4.1                          7.8              356.042
2000                 3.6                          6.7              307.661
2100                 3.1                          5.9              268.600
2200                 3.0                          5.6              257.114
2300                 2.6                          4.8              222.179
2400                 2.1                          3.9              181.005
2500                 1.6                          3.0              139.775
2600                 1.7                          3.1              142.876
2700                 1.3                          2.5              113.704
2800                 1.0                          1.9               86.856
2900                 1.3                          2.4              108.626
3000                 1.1                          2.0               93.963
3100                  .9                          1.8               80.770
3200                 1.6                          2.9              133.388

TOTAL WEIGHT                                                      8590.902

PR/PH                          2.250

PR/1700                         .737

PH/1800                         .373

SUM OF THE N-ALKANES 1600-3200 / PR+PH      8.006
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TABLE 3.k CONT.'D

```
NAME          PERCENT COMPOSITION          PERCENTAGE OF          COMPONENT
----              1100-3200                  1600-3200          WEIGHT IN UG.

1100                 0.0                                              0.000
1150                 0.0                                              0.000
1200                 8.0                                            464.373
1253                 4.8                                            277.879
1300                 7.6                                            440.124
1356                 4.5                                            259.568
1400                 7.0                                            406.872
1440                 4.1                                            235.435
1500                 7.1                                            408.920
1551                 1.7                                             96.201
1600                 6.1                          11.0              351.588
1620                 2.5                           4.5              141.959
1670                 3.2                           5.8              184.281
1700                 5.2                           9.4              300.633
1780                 1.3                           2.4               77.042
1800                 4.5                           8.1              258.693
1851                 1.8                           3.2              102.860
1900                 4.9                           8.9              283.641
2000                 3.8                           7.0              221.892
2100                 3.3                           6.0              190.319
2200                 2.9                           5.2              164.744
2300                 2.4                           4.3              136.232
2400                 2.0                           3.6              116.132
2500                 1.8                           3.2              101.834
2600                 1.4                           2.5               79.639
2700                 1.2                           2.1               66.702
2800                  .9                           1.6               51.322
2900                 1.0                           1.8               57.689
3000                 1.2                           2.2               68.702
3100                 2.0                           3.7              116.322
3200                 1.9                           3.5              111.133

TOTAL WEIGHT                                                       5772.732

PR/PH                          2.392

PR/1700                         .613

PH/1800                         .298

SUM OF THE N-ALKANES 1600-3200 / PR+PH    10.345
```

G-428

TABLE 3.k CONT.'D

```
NAME          PERCENT COMPOSITION           PERCENTAGE OF          COMPONENT
----              1100-3200                   1600-3200           WEIGHT IN UG.

1100                 0.0                                              0.000
1150                 0.0                                              0.000
1200                 5.2                                            181.634
1253                 3.6                                            126.870
1300                 7.2                                            250.203
1356                 5.5                                            190.633
1400                 7.5                                            259.343
1440                 5.3                                            183.392
1500                 6.6                                            230.731
1551                 1.5                                             53.138
1600                 5.6                           9.8              195.934
1620                 1.8                           3.1               61.574
1670                 3.6                           6.2              124.833
1700                 4.7                           8.2              164.480
1780                 1.4                           2.5               49.120
1800                 4.2                           7.3              146.436
1851                 1.9                           3.3               65.784
1900                 4.1                           7.1              142.030
2000                 4.1                           7.0              141.187
2100                 4.5                           7.8              157.198
2200                 4.1                           7.2              143.744
2300                 3.4                           5.9              118.127
2400                 2.6                           4.5               91.022
2500                 2.0                           3.4               68.677
2600                 1.9                           3.4               67.189
2700                 1.6                           2.7               54.757
2800                 1.3                           2.3               45.677
2900                 1.4                           2.5               49.658
3000                 1.4                           2.5               49.977
3100                 1.4                           2.4               48.619
3200                  .5                            .9               18.500

TOTAL WEIGHT                                                       3480.467

PR/PH                            2.541

PR/1700                           .759

PH/1800                           .335

SUM OF THE N-ALKANES 1600-3200 / PR+PH      9.791
```

TABLE 3.k CONT.'D

```
NAME          PERCENT COMPOSITION        PERCENTAGE OF           COMPONENT
----              1100-3200                1600-3200           WEIGHT IN UG.

1100                 0.0                                            0.000
1150                 0.0                                            0.000
1200                 8.8                                          321.308
1253                 4.5                                          164.839
1300                 8.3                                          304.327
1356                 3.9                                          141.919
1400                 7.1                                          257.389
1440                 5.0                                          180.646
1500                 6.6                                          239.922
1551                  .9                                           33.439
1600                 5.3                       9.7                193.353
1620                 3.3                       6.1                121.599
1670                 4.4                       8.0                159.276
1700                 4.3                       7.8                156.167
1780                 1.8                       3.2                 65.043
1800                 3.8                       6.9                138.444
1851                 1.9                       3.5                 71.059
1900                 4.8                       8.7                175.072
2000                 3.8                       6.9                137.985
2100                 3.5                       6.5                129.182
2200                 3.3                       6.0                119.535
2300                 2.6                       4.8                 95.334
2400                 2.3                       4.2                 83.628
2500                 2.1                       3.9                 77.582
2600                 1.6                       2.9                 58.051
2700                 1.1                       2.0                 40.819
2800                  .9                       1.6                 31.837
2900                 1.2                       2.1                 42.860
3000                  .7                       1.3                 26.779
3100                 1.1                       1.9                 38.988
3200                 1.1                       2.0                 39.546

TOTAL WEIGHT                                                     3645.930

PR/PH                          2.449

PR/1700                        1.020

PH/1800                         .470

SUM OF THE N-ALKANES 1600-3200 / PR+PH     7.067
```

G-430

TABLE 3.k CONT.'D

```
NAME          PERCENT COMPOSITION          PERCENTAGE OF        COMPONENT
----              1100-3200                  1600-3200         WEIGHT IN UG.

1100                 0.0                                              0.000
1150                 0.0                                              0.000
1200                 8.7                                            422.946
1253                 4.0                                            191.260
1300                 7.8                                            377.381
1356                 5.4                                            262.588
1400                 7.3                                            352.470
1440                 4.5                                            216.648
1500                 7.2                                            350.126
1551                  .4                                             20.776
1600                 5.9                            10.9            287.004
1620                 2.9                             5.3            141.023
1670                 3.9                             7.1            188.416
1700                 4.6                             8.4            221.921
1780                 1.4                             2.6             68.335
1800                 4.1                             7.6            200.804
1851                 1.8                             3.3             87.137
1900                 4.9                             9.0            239.274
2000                 3.9                             7.2            189.341
2100                 3.6                             6.5            172.149
2200                 3.1                             5.7            151.503
2300                 2.6                             4.7            125.071
2400                 2.3                             4.2            110.165
2500                 2.1                             3.8             99.973
2600                 1.6                             2.9             77.251
2700                 1.1                             2.1             55.547
2800                 1.0                             1.8             48.014
2900                 1.2                             2.2             57.251
3000                  .7                             1.3             33.811
3100                 1.1                             2.1             54.822
3200                  .7                             1.4             36.236

TOTAL WEIGHT                                                       4839.242

PR/PH                          2.757

PR/1700                         .849

PH/1800                         .340

SUM OF THE N-ALKANES 1600-3200 / PR+PH     8.413
```

TABLE 3.k CONT.'D

```
NAME        PERCENT COMPOSITION         PERCENTAGE OF         COMPONENT
----             1100-3200                1600-3200         WEIGHT IN UG.

1100                0.0                                         0.000
1150                0.0                                         0.000
1200                6.9                                       305.718
1253                6.3                                       278.723
1300                6.4                                       282.084
1356                8.2                                       363.075
1400                7.1                                       313.846
1440                3.9                                       172.761
1500                6.1                                       268.854
1551                1.7                                        75.256
1600                5.4                         10.1          238.267
1620                2.5                          4.7          110.113
1670                6.6                         12.3          289.861
1700                4.4                          8.3          196.470
1780                3.5                          6.6          156.822
1800                4.3                          8.0          189.404
1851                2.7                          5.1          120.932
1900                3.6                          6.8          160.054
2000                2.9                          5.4          128.337
2100                2.6                          4.9          116.570
2200                2.5                          4.6          108.543
2300                2.3                          4.2           99.551
2400                1.7                          3.2           75.800
2500                1.3                          2.4           56.582
2600                1.5                          2.7           64.221
2700                1.2                          2.2           52.788
2800                 .5                          1.0           23.940
2900                 .9                          1.7           41.238
3000                1.1                          2.1           50.357
3100                1.0                          1.9           44.557
3200                 .8                          1.5           36.287

TOTAL WEIGHT                                                 4421.010

PR/PH                         1.848

PR/1700                       1.475

PH/1800                        .828

SUM OF THE N-ALKANES 1600-3200 / PR+PH      3.768
```

G-432

TABLE 3.k CONT.'D

```
NAME       PERCENT COMPOSITION          PERCENTAGE OF        COMPONENT
----            1100-3200                 1600-3200          WEIGHT IN UG.

1100            0.0                                              0.000
1150            0.0                                              0.000
1200            6.1                                            544.277
1253            5.4                                            480.241
1300            6.4                                            566.241
1356            6.5                                            582.152
1400            7.7                                            685.875
1440            2.6                                            235.440
1500            7.3                                            649.039
1551            1.0                                             90.942
1600            6.5                          11.4              579.439
1620            2.0                           3.4              174.654
1670            5.2                           9.1              461.972
1700            5.7                          10.0              510.412
1780            2.6                           4.6              234.840
1800            5.0                           8.9              449.663
1851            2.3                           4.1              207.867
1900            4.1                           7.2              364.835
2000            3.3                           5.8              295.973
2100            3.0                           5.2              263.604
2200            2.8                           4.9              246.758
2300            2.5                           4.5              226.597
2400            2.0                           3.5              180.110
2500            1.5                           2.7              134.681
2600            1.7                           2.9              147.820
2700            1.4                           2.4              121.429
2800            1.1                           2.0              102.222
2900            1.2                           2.2              109.850
3000            1.2                           2.1              105.142
3100            1.0                           1.7               86.751
3200             .8                           1.5               74.829

TOTAL WEIGHT                                                  8913.655

PR/PH                         1.967

PR/1700                        .905

PH/1800                        .522

SUM OF THE N-ALKANES 1600-3200 / PR+PH     5.741
```

TABLE 3.k CONT.'D

NAME ----	PERCENT COMPOSITION 1100-3200	PERCENTAGE OF 1600-3200	COMPONENT WEIGHT IN UG.
1100	0.0		0.000
1150	0.0		0.000
1200	8.3		330.863
1253	4.0		158.580
1300	7.3		294.572
1356	3.4		134.335
1400	6.7		268.022
1440	4.5		179.979
1500	6.9		278.011
1551	.2		9.689
1600	6.0	10.2	239.468
1620	3.4	5.7	135.269
1670	4.3	7.4	173.859
1700	4.8	8.1	190.802
1780	1.7	2.9	68.598
1800	4.1	6.9	163.384
1851	2.0	3.5	81.919
1900	5.2	8.8	207.589
2000	4.2	7.1	167.019
2100	3.8	6.4	151.049
2200	3.4	5.8	136.336
2300	2.7	4.5	106.777
2400	2.4	4.1	96.221
2500	2.2	3.8	89.060
2600	1.7	2.9	68.608
2700	1.2	2.0	47.820
2800	1.0	1.7	39.838
2900	1.2	2.0	46.590
3000	.8	1.3	30.175
3100	1.6	2.8	65.951
3200	1.2	2.1	49.405
TOTAL WEIGHT			4009.789

PR/PH 2.534

PR/1700 .911

PH/1800 .420

SUM OF THE N-ALKANES 1600-3200 / PR+PH 7.820

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TABLE 3.k CONT.'D

```
NAME          PERCENT COMPOSITION          PERCENTAGE OF          COMPONENT
----              1100-3200                  1600-3200          WEIGHT IN UG.

1100                 0.0                                              0.000
1150                 0.0                                              0.000
1200                10.4                                            170.165
1253                 6.1                                            100.786
1300                 7.2                                            118.825
1356                 5.3                                             86.622
1400                 6.4                                            104.267
1440                 7.2                                            117.382
1500                 5.2                                             85.902
1551                  .8                                             12.623
1600                 4.1                         8.0                 67.761
1620                 4.9                         9.6                 80.902
1670                 6.6                        12.8                107.960
1700                 2.8                         5.5                 46.156
1780                 3.1                         6.0                 51.064
1800                 2.6                         5.1                 43.115
1851                 2.3                         4.5                 38.059
1900                 3.7                         7.2                 60.856
2000                 2.9                         5.7                 48.094
2100                 3.2                         6.1                 51.927
2200                 3.1                         6.1                 51.614
2300                 2.1                         4.0                 33.684
2400                 1.8                         3.5                 29.204
2500                 1.9                         3.8                 31.853
2600                 1.3                         2.6                 21.719
2700                  .9                         1.7                 14.056
2800                  .6                         1.2                  9.810
2900                  .9                         1.7                 14.176
3000                  .8                         1.5                 12.968
3100                 1.2                         2.4                 20.261
3200                  .6                         1.2                  9.777

TOTAL WEIGHT                                                       1641.590

PR/PH                           2.114

PR/1700                         2.339

PH/1800                         1.184

SUM OF THE N-ALKANES 1600-3200 / PR+PH      3.566
```

TABLE 3.k CONT.'D

NAME ----	PERCENT COMPOSITION 1100-3200	PERCENTAGE OF 1600-3200	COMPONENT WEIGHT IN UG.
1100	0.0		0.000
1150	0.0		0.000
1200	9.0		201.935
1253	5.2		115.742
1300	7.0		156.447
1356	4.3		96.685
1400	6.2		139.346
1440	6.4		143.299
1500	5.7		128.397
1551	.4		10.047
1600	4.5	8.2	101.843
1620	4.6	8.2	102.754
1670	6.5	11.6	144.922
1700	3.5	6.3	78.954
1780	2.8	5.0	61.931
1800	3.1	5.6	69.295
1851	2.3	4.1	51.303
1900	4.3	7.7	96.676
2000	3.4	6.1	75.951
2100	3.3	6.0	74.462
2200	3.1	5.6	70.217
2300	2.3	4.1	50.657
2400	1.9	3.4	42.674
2500	2.2	3.9	48.208
2600	1.5	2.7	33.399
2700	1.1	1.9	24.181
2800	.9	1.6	20.077
2900	1.4	2.4	30.287
3000	1.0	1.7	21.729
3100	1.6	2.8	34.735
3200	.6	1.1	14.083
TOTAL WEIGHT			2240.236

PR/PH 2.340

PR/1700 1.836

PH/1800 .894

SUM OF THE N-ALKANES 1600-3200 / PR+PH 4.290

TABLE 3.k CONT.'D

```
NAME        PERCENT COMPOSITION      PERCENTAGE OF        COMPONENT
----            1100-3200              1600-3200        WEIGHT IN UG.

1100              0.0                                        0.000
1150              0.0                                        0.000
1200              6.5                                      161.006
1253              5.3                                      132.368
1300              5.3                                      132.158
1356              5.6                                      138.312
1400              6.4                                      157.736
1440              5.7                                      142.236
1500              5.6                                      138.384
1551              2.5                                       61.104
1600              4.9                      8.6             121.073
1620              4.2                      7.4             104.873
1670              6.3                     11.0             155.138
1700              3.8                      6.7              94.792
1780              2.8                      4.8              68.507
1800              3.1                      5.5              77.376
1851              2.4                      4.2              59.696
1900              4.0                      7.0              98.604
2000              3.0                      5.3              75.553
2100              3.1                      5.4              76.852
2200              2.7                      4.7              66.609
2300              2.1                      3.8              53.072
2400              1.8                      3.2              45.741
2500              1.8                      3.2              45.031
2600              1.3                      2.3              32.198
2700              1.1                      1.8              26.125
2800               .7                      1.3              18.167
2900              1.3                      2.2              31.043
3000              2.5                      4.3              61.305
3100              4.2                      7.3             103.427
3200              0.0                      0.0               0.000

TOTAL WEIGHT                                              2478.487

PR/PH                         2.265

PR/1700                       1.637

PH/1800                        .885

SUM OF THE N-ALKANES 1600-3200 / PR+PH     4.592
```

TABLE 3.k CONT.'D

```
NAME      PERCENT COMPOSITION         PERCENTAGE OF        COMPONENT
----          1100-3200                 1600-3200        WEIGHT IN UG.

1100             0.0                                              0.000
1150             0.0                                              0.000
1200             8.6                                             82.736
1253             5.6                                             53.837
1300             6.0                                             57.893
1356             5.2                                             50.469
1400             5.3                                             50.824
1440             7.8                                             75.289
1500             5.1                                             49.311
1551             0.0                                              0.000
1600             4.3                          7.6                41.403
1620             6.2                         11.0                60.264
1670             9.1                         16.1                87.621
1700             2.5                          4.5                24.419
1780             4.3                          7.7                41.877
1800             2.1                          3.7                20.131
1851             3.0                          5.3                29.108
1900             4.1                          7.3                40.005
2000             2.9                          5.1                28.109
2100             3.4                          5.9                32.468
2200             3.3                          5.8                31.525
2300             2.1                          3.7                20.280
2400             1.8                          3.2                17.646
2500             2.1                          3.8                20.660
2600             1.5                          2.6                14.236
2700              .9                          1.5                 8.376
2800             0.0                          0.0                 0.000
2900             1.2                          2.1                11.629
3000              .9                          1.7                 9.069
3100              .7                          1.3                 7.001
3200             0.0                          0.0                 0.000

TOTAL WEIGHT                                                    966.184

PR/PH                          2.092

PR/1700                        3.588

PH/1800                        2.080

SUM OF THE N-ALKANES 1600-3200 / PR+PH      2.525
```

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TABLE 3.k CONT.'D

```
NAME         PERCENT COMPOSITION        PERCENTAGE OF        COMPONENT
----              1100-3200               1600-3200         WEIGHT IN UG.

1100                 0.0                                        0.000
1150                 0.0                                        0.000
1200                 8.3                                      117.748
1253                 6.9                                       98.618
1300                 4.2                                       59.181
1356                 5.6                                       79.788
1400                 2.9                                       41.201
1440                10.2                                      144.524
1500                 2.6                                       37.646
1551                 4.3                                       60.400
1600                 1.2                       2.2             16.861
1620                 7.7                      14.0            109.505
1670                16.8                      30.5            238.651
1700                 0.0                       0.0              0.000
1780                 6.2                      11.3             88.159
1800                  .5                        .8              6.569
1851                 3.0                       5.4             42.125
1900                 2.5                       4.5             34.948
2000                 1.6                       2.8             22.172
2100                 2.7                       4.9             38.301
2200                 3.2                       5.8             45.170
2300                 1.4                       2.5             19.333
2400                 1.2                       2.1             16.349
2500                 1.9                       3.5             27.704
2600                 1.3                       2.4             18.939
2700                  .5                        .9              6.799
2800                 0.0                       0.0              0.000
2900                 1.1                       2.0             15.332
3000                 1.2                       2.2             17.590
3100                  .6                       1.1              8.436
3200                  .6                       1.1              8.958

TOTAL WEIGHT                                                 1421.007

PR/PH                          2.707

PR/1700                            R

PH/1800                       13.421

SUM OF THE N-ALKANES 1600-3200 / PR+PH        .929
```

TABLE 3.k CONT.'D

```
NAME              PERCENT COMPOSITION          PERCENTAGE OF          COMPONENT
----                   1100-3200                  1600-3200           WEIGHT IN UG.

1100                      0.0                                             0.000
1150                      0.0                                             0.000
1200                      8.8                                            74.495
1253                      9.1                                            77.308
1300                      4.6                                            39.108
1356                      8.3                                            70.986
1400                      3.9                                            33.509
1440                     12.2                                           103.389
1500                      0.0                                             0.000
1551                      4.0                                            34.199
1600                      0.0                          0.0                0.000
1620                     11.7                         23.8               99.196
1670                     15.3                         31.1              129.948
1700                      0.0                          0.0                0.000
1780                      8.6                         17.6               73.435
1800                      0.0                          0.0                0.000
1851                      3.4                          7.0               29.065
1900                      2.4                          5.0               20.828
2000                      2.3                          4.6               19.139
2100                      0.0                          0.0                0.000
2200                      0.0                          0.0                0.000
2300                      0.0                          0.0                0.000
2400                      1.1                          2.2                9.110
2500                      0.0                          0.0                0.000
2600                      0.0                          0.0                0.000
2700                       .8                          1.6                6.680
2800                      0.0                          0.0                0.000
2900                      3.5                          7.1               29.785
3000                      0.0                          0.0                0.000
3100                      0.0                          0.0                0.000
3200                      0.0                          0.0                0.000

TOTAL WEIGHT                                                            850.181

PR/PH                                1.770

PR/1700                                  R

PH/1800                                  R

SUM OF THE N-ALKANES 1600-3200 / PR+PH        .421
```

TABLE 3.k CONT.'D

```
NAME          PERCENT COMPOSITION        PERCENTAGE OF         COMPONENT
----              1100-3200                1600-3200         WEIGHT IN UG.

1100                 0.0                                            0.000
1150                 0.0                                            0.000
1200                 6.8                                          789.564
1253                 5.2                                          605.188
1300                 7.6                                          892.984
1356                 6.1                                          708.828
1400                 8.2                                          960.382
1440                 2.4                                          277.264
1500                 7.7                                          896.040
1551                 1.3                                          154.242
1600                 6.5                      12.0                764.763
1620                 1.4                       2.6                164.645
1670                 3.9                       7.1                456.067
1700                 6.0                      11.0                700.097
1780                 2.1                       3.8                239.830
1800                 5.1                       9.4                598.322
1851                 2.0                       3.6                229.885
1900                 4.2                       7.7                492.514
2000                 3.5                       6.4                411.406
2100                 3.0                       5.5                351.503
2200                 2.8                       5.2                330.305
2300                 2.6                       4.7                299.746
2400                 2.1                       3.8                244.185
2500                 1.7                       3.1                198.937
2600                 1.6                       2.9                187.374
2700                 1.3                       2.4                153.514
2800                 1.1                       1.9                123.504
2900                 1.1                       2.1                133.785
3000                 1.0                       1.8                117.303
3100                  .9                       1.6                105.259
3200                  .8                       1.4                 90.091

TOTAL WEIGHT                                                    11677.528

PR/PH                           1.902

PR/1700                          .651

PH/1800                          .001

SUM OF THE N-ALKANES 1600-3200 / PR+PH      7.[illegible]20
```

TABLE 3.k CONT.'D

NAME ----	PERCENT COMPOSITION 1100-3200	PERCENTAGE OF 1600-3200	COMPONENT WEIGHT IN UG.
1100	0.0		0.000
1150	0.0		0.000
1200	4.8		243.424
1253	3.2		162.795
1300	5.5		282.937
1356	4.0		201.999
1400	7.3		371.421
1440	5.8		296.607
1500	8.8		449.680
1551	2.0		104.443
1600	7.3	12.4	372.560
1620	1.8	3.1	92.910
1670	3.3	5.7	170.744
1700	5.5	9.4	281.003
1780	1.1	1.8	55.025
1800	4.5	7.7	229.829
1851	1.7	2.9	87.132
1900	4.5	7.7	230.350
2000	3.7	6.4	190.576
2100	3.3	5.7	170.497
2200	3.2	5.5	163.698
2300	3.2	5.5	163.708
2400	2.9	5.0	149.335
2500	2.4	4.0	121.038
2600	2.2	3.7	111.555
2700	1.6	2.8	82.452
2800	1.3	2.3	68.489
2900	1.4	2.4	72.692
3000	1.1	1.9	56.247
3100	1.1	1.8	54.993
3200	1.3	2.3	68.778
TOTAL WEIGHT			5106.918

PR/PH 3.103

PR/1700 .608

PH/1800 .239

SUM OF THE N-ALKANES 1600-3200 / PR+PH 11.462

TABLE 3.k CONT.'D

Summary for Second Nutrient Experiment:
B. Aromatic Hydrocarbon Distribution for All Samples

Sequence	Sample Number	Treatment Time (Hours)
1	RUBN-37	0
2	RUBN-38	0
3	RUBN-10	29.5
4	RUBN-32	29.5
5	RUBN-12	80.0
6	RUBN-15	80.0
7	RUBN-31	80.0
8	RUBN-35	99.0
9	RUBN-36	99.0
10	RUBN- 7	142.5
11	RUBN-17	142.5
12	RUBN-33	142.5
13	RUBN- 4	164.0
14	RUBN-11	164.0
15	RUBN-16	164.0
16	RUBN- 9	213.5
17	RUBN-19	213.5
18	RUBN-14	250.0
19	RUBN-22	250.0
20	RUBN-13	384.0
21	RUBN-28	384.0
22	RUBN-39	384.0
23	RUBN-40	384.0

TABLE 3.k CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	6.5	11.157
1870	17.4	29.845
1910	8.9	15.364
1980	10.9	18.703
2020	21.3	36.626
2060	4.4	7.572
2080	2.7	4.662
2110	.8	1.310
2130	6.1	10.576
2170	6.3	10.755
2210	4.5	7.811
2220	.6	1.043
2240	2.0	3.414
2290	.2	.412
2310	1.0	1.761
2430	3.5	5.963
2520	2.9	5.005
TOTAL WEIGHT		171.979

TABLE 3.k CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	7.1	10.992
1870	14.8	23.047
1910	9.4	14.663
1980	10.0	15.556
2020	21.9	34.109
2060	4.7	7.372
2080	2.0	3.100
2110	.7	1.020
2130	6.7	10.408
2170	6.6	10.283
2210	4.3	6.770
2220	.7	1.142
2240	2.1	3.333
2290	.4	.701
2310	1.0	1.494
2430	3.8	5.921
2520	3.8	5.947
TOTAL WEIGHT		155.856

TABLE 3.k CONT.'D

```
NAME     PERCENT COMPOSITION       COMPONENT WEIGHT IN UG.


 1750           2.9                       2.651

 1870          11.2                      10.371

 1910           8.8                       8.170

 1980           8.6                       7.921

 2020          22.3                      20.641

 2060           6.0                       5.589

 2080           3.3                       3.022

 2110           1.7                       1.586

 2130           7.6                       7.078

 2170           7.9                       7.288

 2210           5.1                       4.702

 2220            .8                        .769

 2240           2.3                       2.143

 2290           1.0                        .905

 2310           1.2                       1.145

 2430           4.5                       4.167

 2520           4.7                       4.378


TOTAL WEIGHT                             92.526
```

TABLE 3.k CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	0.0	0.000
1870	7.7	6.117
1910	6.1	4.856
1980	8.8	6.921
2020	23.5	18.587
2060	6.5	5.136
2080	3.8	3.036
2110	1.9	1.516
2130	9.0	7.090
2170	9.3	7.394
2210	6.2	4.913
2220	1.0	.768
2240	2.8	2.177
2290	1.1	.838
2310	1.5	1.175
2430	5.3	4.211
2520	5.5	4.354
TOTAL WEIGHT		79.088

TABLE 3.k CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	5.8	8.447
1870	13.6	19.824
1910	9.2	13.502
1980	8.1	11.770
2020	20.6	30.094
2060	5.5	7.978
2080	2.9	4.291
2110	1.6	2.359
2130	6.7	9.713
2170	6.8	9.949
2210	4.5	6.563
2220	1.0	1.511
2240	2.7	4.004
2290	.9	1.359
2310	1.1	1.658
2430	4.4	6.375
2520	4.5	6.641
TOTAL WEIGHT		146.038

TABLE 3.k CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	0.0	0.000
1870	3.2	6.308
1910	5.7	11.066
1980	11.3	21.948
2020	28.0	54.448
2060	6.1	11.791
2080	3.2	6.158
2110	1.6	3.189
2130	8.1	15.753
2170	9.6	18.651
2210	7.0	13.590
2220	1.1	2.070
2240	2.7	5.348
2290	.6	1.178
2310	1.6	3.073
2430	5.5	10.610
2520	4.9	9.468
TOTAL WEIGHT		194.647

TABLE 3.k CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	4.6	6.261
1870	15.6	21.191
1910	8.5	11.549
1980	11.1	15.078
2020	22.6	30.724
2060	4.6	6.308
2080	2.4	3.259
2110	.7	1.002
2130	6.9	9.427
2170	7.1	9.671
2210	4.9	6.724
2220	.7	.896
2240	2.4	3.267
2290	.0	.054
2310	.4	.586
2430	4.1	5.563
2520	3.3	4.542
TOTAL WEIGHT		136.103

TABLE 3.k CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	4.7	7.353
1870	13.3	20.611
1910	9.3	14.392
1980	8.3	12.926
2020	21.0	32.617
2060	5.6	8.671
2080	3.1	4.830
2110	1.6	2.520
2130	6.7	10.460
2170	7.1	11.029
2210	5.0	7.731
2220	.8	1.253
2240	2.1	3.277
2290	.9	1.361
2310	1.2	1.844
2430	4.5	7.027
2520	4.6	7.149
TOTAL WEIGHT		155.051

TABLE 3.k CONT.'D

```
NAME     PERCENT COMPOSITION        COMPONENT WEIGHT IN UG.


 1750                4.2                        8.175

 1870               16.8                       32.419

 1910                7.5                       14.482

 1980                9.9                       19.125

 2020               19.6                       37.987

 2060                4.3                        8.256

 2080                2.8                        5.366

 2110                 .8                        1.606

 2130                6.5                       12.630

 2170                6.0                       11.631

 2210                4.5                        8.799

 2220                 .4                         .868

 2240                1.9                        3.699

 2290                 .5                         .876

 2310                2.8                        5.506

 2430                5.4                       10.384

 2520                6.1                       11.725


TOTAL WEIGHT                                  193.534
```

TABLE 3.k CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	4.6	5.917
1870	11.7	15.109
1910	8.0	10.309
1980	9.0	11.688
2020	19.3	24.901
2060	4.7	6.036
2080	1.7	2.209
2110	.6	.751
2130	14.4	18.574
2170	6.4	8.334
2210	4.9	6.393
2220	.4	.512
2240	2.5	3.283
2290	.4	.566
2310	1.1	1.474
2430	5.9	7.627
2520	4.4	5.669
TOTAL WEIGHT		129.352

TABLE 3.k CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	4.2	4.716
1870	15.3	17.232
1910	9.5	10.764
1980	10.9	12.297
2020	23.5	26.555
2060	4.7	5.358
2080	2.2	2.517
2110	.9	.983
2130	6.4	7.251
2170	7.1	7.976
2210	4.8	5.401
2220	.7	.752
2240	2.2	2.514
2290	.0	.034
2310	.4	.477
2430	3.8	4.242
2520	3.3	3.757
TOTAL WEIGHT		112.828

TABLE 3.k CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	5.2	5.910
1870	13.4	15.374
1910	9.2	10.543
1980	10.3	11.849
2020	23.0	26.347
2060	4.9	5.569
2080	2.0	2.303
2110	.7	.750
2130	7.0	8.037
2170	7.4	8.539
2210	4.9	5.622
2220	.8	.871
2240	2.3	2.678
2290	.0	.056
2310	.4	.488
2430	4.2	4.837
2520	4.3	4.965
TOTAL WEIGHT		114.737

TABLE 3.k CONT.'D

```
NAME     PERCENT COMPOSITION        COMPONENT WEIGHT IN UG.


 1750                0.0                      0.000

 1870               15.1                     16.269

 1910                8.6                      9.260

 1980               11.3                     12.209

 2020               23.8                     25.674

 2060                4.8                      5.201

 2080                2.6                      2.820

 2110                 .9                      1.017

 2130                6.6                      7.162

 2170                7.1                      7.678

 2210                5.4                      5.847

 2220                 .7                       .795

 2240                2.2                      2.394

 2290                 .4                       .437

 2310                1.2                      1.299

 2430                5.6                      6.066

 2520                3.6                      3.868


TOTAL WEIGHT                                107.997
```

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TABLE 3.k CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	3.9	4.858
1870	14.5	17.965
1910	8.4	10.404
1980	11.1	13.735
2020	23.5	29,002
2060	4.8	5.933
2080	2.5	3.137
2110	.9	1.120
2130	7.0	8.641
2170	7.4	9.129
2210	5.2	6.439
2220	.7	.852
2240	2.3	2.832
2290	.0	.051
2310	.4	.525
2430	3.8	4.756
2520	3.4	4.216
TOTAL WEIGHT		123.595

TABLE 3.k CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	4.9	6.260
1870	16.6	21.291
1910	8.4	10.798
1980	11.4	14.662
2020	22.5	28.873
2060	4.3	5.517
2080	2.5	3.235
2110	.7	.941
2130	6.7	8.521
2170	6.8	8.730
2210	5.3	6.728
2220	.6	.763
2240	2.1	2.699
2290	.0	.041
2310	.3	.365
2430	3.6	4.564
2520	3.2	4.081
TOTAL WEIGHT		128.067

TABLE 3.k CONT.'D

```
  NAME     PERCENT COMPOSITION       COMPONENT WEIGHT IN UG.

   1750                  0.0                  0.000
   1870                  4.9                  3.001
   1910                  7.1                  4.406
   1980                 10.5                  6.512
   2020                 27.2                 16.801
   2060                  5.8                  3.588
   2080                  3.0                  1.841
   2110                  1.3                   .825
   2130                  8.1                  5.005
   2170                  9.2                  5.681
   2210                  6.5                  4.006
   2220                  1.0                   .635
   2240                  2.7                  1.683
   2290                   .6                   .386
   2310                  1.4                   .897
   2430                  5.2                  3.235
   2520                  5.4                  3.349


  TOTAL WEIGHT                               61.851
```

TABLE 3.k CONT.'D

```
NAME     PERCENT COMPOSITION      COMPONENT WEIGHT IN UG.


 1750              0.0                  0.000

 1870              6.9                  5.254

 1910              8.1                  6.186

 1980             11.1                  8.451

 2020             27.7                 21.038

 2060              6.0                  4.563

 2080              2.8                  2.114

 2110              1.3                   .972

 2130              7.5                  5.695

 2170              8.6                  6.569

 2210              6.0                  4.542

 2220               .9                   .711

 2240              2.6                  1.991

 2290               .6                   .447

 2310              1.4                  1.082

 2430              4.5                  3.408

 2520              3.9                  2.954


TOTAL WEIGHT                           75.976
```

TABLE 3.k CONT.'D

```
  NAME     PERCENT COMPOSITION       COMPONENT WEIGHT IN UG.


   1750              2.8                      1.744

   1870              8.1                      5.132

   1910              4.9                      3.095

   1980              8.3                      5.217

   2020             22.9                     14.490

   2060              6.5                      4.101

   2080              2.9                      1.827

   2110              2.1                      1.312

   2130              8.1                      5.138

   2170              8.6                      5.406

   2210              5.4                      3.385

   2220              1.0                       .626

   2240              2.5                      1.569

   2290               .9                       .564

   2310              1.7                      1.063

   2430              7.8                      4.900

   2520              5.8                      3.652


 TOTAL WEIGHT                                63.220
```

TABLE 3.k CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	0.0	0.000
1870	11.2	8.790
1910	6.8	5.355
1980	12.1	9.501
2020	26.1	20.509
2060	5.0	3.956
2080	2.7	2.136
2110	.9	.743
2130	7.7	6.053
2170	8.4	6.601
2210	6.3	4.955
2220	.9	.683
2240	2.0	1.556
2290	.0	.035
2310	.6	.480
2430	4.9	3.815
2520	4.2	3.332
TOTAL WEIGHT		78.499

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TABLE 3.k CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	4.4	8.397
1870	14.7	28.209
1910	8.6	16.450
1980	11.3	21.622
2020	23.2	44.557
2060	4.8	9.274
2080	2.4	4.536
2110	.8	1.612
2130	7.0	13.526
2170	7.3	14.039
2210	5.1	9.763
2220	.7	1.325
2240	2.2	4.250
2290	.0	.052
2310	.4	.835
2430	3.8	7.266
2520	3.3	6.346
TOTAL WEIGHT		192.061

TABLE 3.k CONT.'D

```
NAME     PERCENT COMPOSITION       COMPONENT WEIGHT IN UG.


 1750            0.0                         0.000

 1870            1.2                          .497

 1910            3.2                         1.342

 1980            9.1                         3.789

 2020           26.2                        10.953

 2060            7.1                         2.962

 2080            3.9                         1.620

 2110            2.4                          .984

 2130           10.5                         4.395

 2170           11.0                         4.590

 2210            7.4                         3.110

 2220            1.4                          .571

 2240            2.9                         1.228

 2290            1.0                          .416

 2310            1.9                          .780

 2430            6.8                         2.831

 2520            4.1                         1.733


TOTAL WEIGHT                                41.802
```

TABLE 3.k CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	2.3	2.767
1870	11.8	14.289
1910	8.1	9.849
1980	11.3	13.718
2020	24.5	29.790
2060	5.1	6.246
2080	2.3	2.772
2110	.9	1.060
2130	7.9	9.537
2170	8.5	10.287
2210	5.5	6.705
2220	.9	1.060
2240	2.5	3.043
2290	.0	.046
2310	.4	.488
2430	4.3	5.186
2520	3.7	4.550
TOTAL WEIGHT		121.393

TABLE 3.k CONT.'D

```
NAME     PERCENT COMPOSITION        COMPONENT WEIGHT IN UG.

 1750              0.0                        0.000

 1870             11.6                       13.284

 1910              8.0                        9.182

 1980             10.7                       12.334

 2020             24.1                       27.670

 2060              5.8                        6.660

 2080              2.2                        2.549

 2110               .6                         .719

 2130              8.0                        9.241

 2170              8.0                        9.178

 2210              5.8                        6.615

 2220               .9                        1.078

 2240              2.8                        3.215

 2290               .6                         .678

 2310              1.2                        1.370

 2430              5.1                        5.907

 2520              4.6                        5.321


TOTAL WEIGHT                                115.003
```

TABLE 3.1

Extraction Experiment Summary:
A. Saturated Hydrocarbon Distribution for All Samples

Sequence	Sample Number	Treatment
1	RUBO-1	2216-O.D., 1.2-then add oil
2	RUBO-2	2216-O.D., 1.2-then add oil
3	RUBO-3	2216-O.D., 0.0-then add oil
4	RUBO-4	2216-O.D., 0.0-then add oil
5	RUBO-5	3.5%NaCl-O.D., 0.0-then add oil
6	RUBO-6	3.5%NaCl-O.D., 0.0-then add oil

TABLE 3.1 CONT.'D

```
NAME       PERCENT COMPOSITION        PERCENTAGE OF        COMPONENT
----           1100-3200                1600-3200        WEIGHT IN UG.

1100              0.0                                          0.000
1150              0.0                                          0.000
1200              9.5                                        720.272
1253              4.9                                        372.153
1300              9.1                                        690.987
1356              3.2                                        245.339
1400              8.4                                        635.883
1440              3.6                                        272.785
1500              6.9                                        522.810
1551              1.4                                        109.862
1600              6.1                         11.5           459.743
1620              2.2                          4.2           170.237
1670              2.6                          4.9           195.948
1700              5.0                          9.5           380.927
1780              1.1                          2.0            79.836
1800              4.3                          8.1           325.943
1851              1.4                          2.7           109.532
1900              4.7                          8.9           358.187
2000              3.8                          7.2           287.009
2100              3.3                          6.2           249.858
2200              2.9                          5.5           222.547
2300              2.5                          4.8           190.667
2400              2.2                          4.1           165.300
2500              1.9                          3.5           141.106
2600              1.5                          2.7           110.216
2700              1.2                          2.2            88.450
2800               .9                          1.6            65.273
2900              1.0                          1.8            73.339
3000               .9                          1.7            69.367
3100              1.7                          3.3           130.917
3200              1.8                          3.4           136.088

TOTAL WEIGHT                                                7580.580

PR/PH                        2.454

PR/1700                       .514

PH/1800                       .245

SUM OF THE N-ALKANES 1600-3200 / PR+PH    12.528
```

TABLE 3.1 CONT.'D

```
NAME          PERCENT COMPOSITION          PERCENTAGE OF          COMPONENT
----              1100-3200                  1600-3200           WEIGHT IN UG.

1100                 0.0                                             0.000
1150                 0.0                                             0.000
1200                 9.5                                           820.690
1253                 4.6                                           397.529
1300                 8.2                                           710.051
1356                 4.1                                           352.429
1400                 7.0                                           603.345
1440                 3.6                                           313.725
1500                 7.1                                           614.113
1551                 1.6                                           138.114
1600                 6.4                        11.8               552.710
1620                 2.3                         4.2               198.101
1670                 2.8                         5.1               238.179
1700                 5.3                         9.7               458.135
1780                 1.1                         2.0                94.884
1800                 4.4                         8.1               381.796
1851                 1.6                         2.9               138.324
1900                 4.7                         8.7               407.706
2000                 3.7                         6.8               321.114
2100                 3.2                         5.8               273.626
2200                 2.8                         5.1               238.259
2300                 2.3                         4.3               200.398
2400                 2.0                         3.7               173.331
2500                 1.7                         3.2               151.069
2600                 1.4                         2.5               119.494
2700                 1.1                         2.1                99.070
2800                  .9                         1.7                79.383
2900                 1.2                         2.2               104.090
3000                 1.6                         2.9               136.376
3100                 2.0                         3.8               176.634
3200                 1.8                         3.4               157.697

TOTAL WEIGHT                                                      8650.373

PR/PH                          2.510

PR/1700                         .520

PH/1800                         .249

SUM OF THE N-ALKANES 1600-3200 / PR+PH    12.103
```

TABLE 3.1 CONT.'D

RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE RUBO, REPL. NO. 3

NAME ----	PERCENT COMPOSITION 1100-3200	PERCENTAGE OF 1600-3200	COMPONENT WEIGHT IN UG.
1100	0.0		0.000
1150	0.0		0.000
1200	11.1		926.747
1253	4.9		409.811
1300	9.0		755.278
1356	3.4		282.742
1400	7.3		609.480
1440	3.7		308.417
1500	7.0		582.154
1551	1.5		121.558
1600	6.1	11.6	508.339
1620	2.3	4.3	189.156
1670	2.6	4.9	214.632
1700	5.0	9.5	415.827
1780	1.1	2.1	89.847
1800	4.4	8.3	363.949
1851	1.5	2.9	126.150
1900	4.8	9.2	401.692
2000	3.9	7.4	323.513
2100	3.2	6.2	270.831
2200	2.7	5.3	229.874
2300	2.3	4.4	190.558
2400	1.9	3.7	160.846
2500	1.7	3.2	139.553
2600	1.3	2.5	110.544
2700	1.1	2.1	89.650
2800	.8	1.6	70.647
2900	.9	1.8	76.913
3000	1.2	2.3	102.248
3100	1.6	3.1	136.762
3200	1.8	3.5	152.809
TOTAL WEIGHT			8360.526

PR/PH 2.389

PR/1700 .516

PH/1800 .247

SUM OF THE N-ALKANES 1600-3200 / PR+PH 1[illegible]98

G-470

TABLE 3.1 CONT.'D

```
NAME              PERCENT COMPOSITION      PERCENTAGE OF        COMPONENT
----                  1100-3200              1600-3200          WEIGHT IN UG.

1100                    0.0                                          0.000
1150                    0.0                                          0.000
1200                   10.6                                        837.849
1253                    5.4                                        426.854
1300                    9.3                                        735.700
1356                    3.0                                        238.977
1400                    8.3                                        657.174
1440                    3.4                                        269.292
1500                    6.6                                        523.174
1551                    1.3                                        101.970
1600                    5.9                   11.3                 463.397
1620                    2.2                    4.1                 170.181
1670                    2.5                    4.7                 194.343
1700                    5.0                    9.6                 394.713
1780                    1.1                    2.0                  83.450
1800                    4.4                    8.5                 349.515
1851                    1.4                    2.8                 113.623
1900                    4.8                    9.2                 377.455
2000                    3.8                    7.3                 298.638
2100                    3.2                    6.1                 251.051
2200                    2.7                    5.2                 215.124
2300                    2.3                    4.4                 182.050
2400                    2.0                    3.8                 156.556
2500                    1.7                    3.3                 136.872
2600                    1.4                    2.6                 108.154
2700                    1.1                    2.2                  90.063
2800                     .9                    1.6                  67.662
2900                    1.0                    1.9                  77.976
3000                    1.2                    2.2                  92.066
3100                    1.7                    3.3                 135.254
3200                    2.0                    3.8                 154.470

TOTAL WEIGHT                                                      7903.604

PR/PH                            2.329

PR/1700                           .492

PH/1800                           .239

SUM OF THE N-ALKANES 1600-3200 / PR+PH     12.783
```

TABLE 3.1 CONT.'D

```
NAME          PERCENT COMPOSITION           PERCENTAGE OF        COMPONENT
----              1100-3200                   1600-3200          WEIGHT IN UG.

1100                 0.0                                            0.000
1150                 0.0                                            0.000
1200                 8.6                                          407.166 8.564
1253                 3.9                                          183.699 3.864
1300                 5.6                                          264.537 5.564
1356                 4.5                                          212.217 4.464
1400                 7.8                                          369.756 7.777
1440                 4.5                                          212.083 4.461
1500                 7.0                                          332.002 6.983
1551                 2.6                                          124.586 2.626
1600                 5.9                         10.6             279.464 5.882
1620                 1.4                          2.4              64.440 1.355
1670                 2.9                          5.2             138.412 2.911
1700                 5.1                          9.1             240.175 5.052
1780                  .9                          1.7              44.178 .929
1800                 4.3                          7.7             204.352 4.298
1851                 1.7                          3.0              78.716 1.656
1900                 4.5                          8.1             213.760 4.496
2000                 3.9                          7.0             185.909 3,910
2100                 4.1                          7.4             196.601 4.135
2200                 4.0                          7.1             188.492 3.965
2300                 3.4                          6.1             162.342 3.415
2400                 2.6                          4.7             125.494 2.640
2500                 2.0                          3.5              93.499 1.967
2600                 1.9                          3.5              92.578 1.947
2700                 1.5                          2.7              72.507 1.525
2800                 1.1                          1.9              50.876 1.070
2900                 1.5                          2.6              69.010 1.452
3000                 1.2                          2.1              56.002 1.118
3100                 1.0                          1.9              49.611 1.043
3200                  .9                          1.6              41.724 .877

TOTAL WEIGHT                                                     4754.187

PR/PH                            3.133

PR/1700                           .576

PH/1800                           .216

SUM OF THE N-ALKANES 1600-3200 / PR+PH     12.719
```

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TABLE 3.1 CONT.'D

```
NAME        PERCENT COMPOSITION          PERCENTAGE OF         COMPONENT
----             1100-3200                 1600-3200          WEIGHT IN UG.

1100               0.0                                            0.000
1150               0.0                                            0.000
1200              10.2                                         1102.182    10.130
1253               5.6                                          606.877     5.589
1300               7.5                                          813.393     7.491
1356               6.2                                          671.538     6.184
1400               8.0                                          872.852     8.038
1440               2.2                                          238.253     2.194
1500               7.4                                          801.125     7.378
1551               1.2                                          129.847     1.196
1600               6.2                       12.0               676.609     6.231
1620               1.3                        2.5               141.756     1.305
1670               3.7                        7.1               399.218     3.676
1700               5.7                       11.0               620.273     5.712
1780               1.9                        3.8               211.162     1.945
1800               5.0                        9.7               546.918     5.037
1851               1.9                        3.7               210.052     1.934
1900               4.2                        8.1               453.838     4.179
2000               3.4                        6.6               369.742     3.405
2100               2.8                        5.4               302.266     2.784
2200               2.6                        5.1               284.812     2.623
2300               2.4                        4.6               255.882     2.356
2400               1.9                        3.6               203.414     1.873
2500               1.5                        3.0               168.224     1.549
2600               1.4                        2.7               154.554     1.423
2700               1.2                        2.2               125.056     1.152
2800               1.0                        1.9               108.061      .995
2900               1.0                        2.0               112.908     1.040
3000               1.0                        1.9               104.348      .961
3100                .8                        1.6                88.482      .815
3200                .8                        1.5                85.189      .785

TOTAL WEIGHT                                                  10858.829

PR/PH                          1.891

PR/1700                         .644

PH/1800                         .386

SUM OF THE N-ALKANES 1600-3200 / PR+PH     7.636
```

TABLE 3.1 CONT.'D

Extraction Experiment Summary:
B. Aromatic Hydrocarbon Distribution for All Samples

Sequence	Sample Number	Treatment
1	RUBO-1	2216-O.D., 1.2-then add oil
2	RUBO-2	2216-O.D., 1.2-then add oil
3	RUBO-3	2216-O.D., 0.0-then add oil
4	RUBO-4	2216-O.D., 0.0-then add oil
5	RUBO-5	3.5% NaCl-O.D., 0.0-then add oil
6	RUBO-6	3.5% NaCl-O.D., 0.0-then add oil

TABLE 3.1 CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	6.9	7.920
1870	14.4	16.406
1910	9.4	10.757
1980	8.2	9.368
2020	20.8	23.781
2060	5.6	6.352
2080	2.9	3.323
2110	1.5	1.765
2130	6.6	7.527
2170	6.6	7.542
2210	4.3	4.960
2220	.7	.801
2240	2.0	2.278
2290	.8	.905
2310	1.1	1.204
2430	3.9	4.493
2520	4.2	4.773
TOTAL WEIGHT		114.154

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TABLE 3.1 CONT.'D

```
NAME      PERCENT COMPOSITION        COMPONENT WEIGHT IN UG.

 1750               9.6                     21.081
 1870              15.2                     33.345
 1910               8.8                     19.327
 1980               7.3                     16.073
 2020              18.7                     40.946
 2060               5.2                     11.398
 2080               2.4                      5.215
 2110               1.6                      3.524
 2130               6.2                     13.676
 2170               6.3                     13.708
 2210               3.7                      8.123
 2220                .8                      1.713
 2240               2.0                      4.375
 2290                .9                      2.031
 2310               2.8                      6.115
 2430               4.5                      9.761
 2520               4.0                      8.741


TOTAL WEIGHT                               219.153
```

TABLE 3.1 CONT.'D

```
NAME    PERCENT COMPOSITION      COMPONENT WEIGHT IN UG.


 1750                 3.1                  2.547

 1870                12.0                  9.933

 1910                 7.6                  6.274

 1980                 8.3                  6.840

 2020                21.3                 17.626

 2060                 5.8                  4.780

 2080                 3.1                  2.591

 2110                 1.7                  1.428

 2130                 7.6                  6.305

 2170                 7.7                  6.354

 2210                 5.0                  4.150

 2220                 1.1                   .894

 2240                 3.0                  2.474

 2290                  .9                   .756

 2310                 1.3                  1.112

 2430                 5.2                  4.325

 2520                 5.3                  4.399


TOTAL WEIGHT                              82.788
```

TABLE 3.1 CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	3.5	3.408
1870	11.9	11.438
1910	8.6	8.292
1980	8.5	8.198
2020	22.3	21.460
2060	5.9	5.725
2080	3.3	3.206
2110	1.6	1.590
2130	7.3	7.077
2170	7.6	7.344
2210	5.1	4.946
2220	.8	.743
2240	2.2	2.151
2290	1.0	.923
2310	1.2	1.132
2430	4.4	4.231
2520	4.7	4.505
TOTAL WEIGHT		96.368

TABLE 3.1 CONT.'D

NAME	PERCENT COMPOSITION	COMPONENT WEIGHT IN UG.
1750	7.0	10.983
1870	13.6	21.332
1910	9.0	14.132
1980	8.6	13.535
2020	20.4	31.900
2060	4.4	6.915
2080	1.8	2.862
2110	3.6	5.629
2130	11.1	17.424
2170	6.1	9.598
2210	4.0	6.328
2220	.7	1.044
2240	2.0	3.087
2290	.4	.599
2310	.9	1.413
2430	3.5	5.456
2520	2.8	4.436
TOTAL WEIGHT		156.674

TABLE 3.1 CONT.'D

```
 NAME     PERCENT COMPOSITION        COMPONENT WEIGHT IN UG.

  1750                 0.0                  0.000
  1870                12.4                 15.379
  1910                 8.0                  9.965
  1980                11.3                 13.975
  2020                24.9                 30.857
  2060                 5.3                  6.538
  2080                 2.5                  3.042
  2110                  .8                  1.010
  2130                 7.6                  9.365
  2170                 8.0                  9.929
  2210                 5.2                  6.397
  2220                  .9                  1.119
  2240                 2.4                  2.959
  2290                  .4                   .556
  2310                 1.3                  1.573
  2430                 4.4                  5.489
  2520                 4.6                  5.718


TOTAL WEIGHT                              123.870
```

FIGURE 1

GAS CHROMATOGRAPHS AND ODD-EVEN PREFERENCE CURVES FOR WINTER, MARCH AND APRIL SAMPLES

Explanation of Figure:

1.a - Winter Samples (Cruise 1)
1.b - March Samples (Cruise 2)
1.c - April Samples (Cruise 3)

Sample Numbers:

First Digit - Cruise No.
Second Digit - Station No. (on Transect II)
Third Digit - Replicate No.
Remaining Digits - Date

Example: 111217 = Cruise 1; (winter)
Station 1, Transect II
Replicate 1
February 17

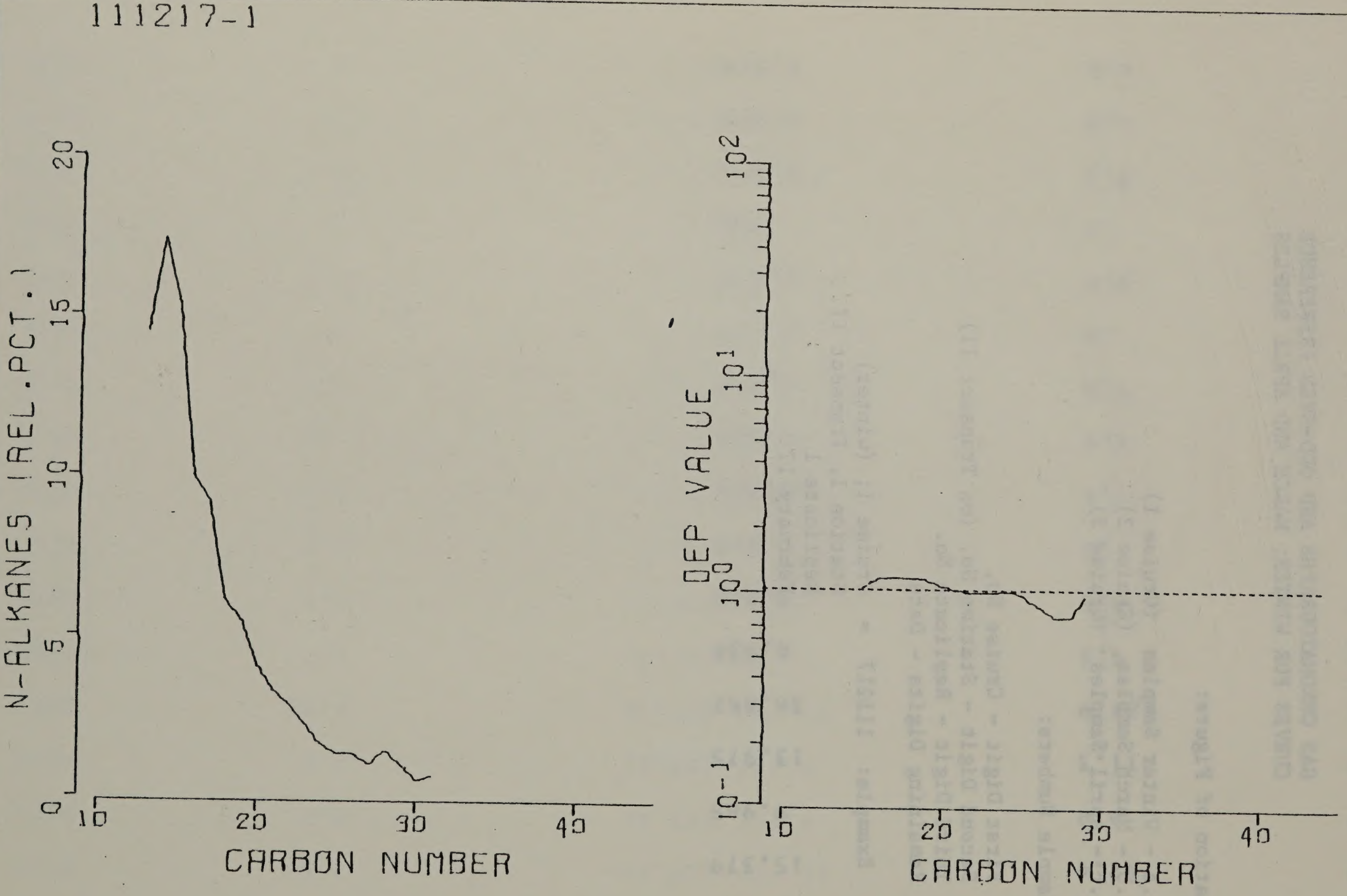

111217-1
N-ALKANES (REL.PCT.)
0
5
10
15
20
10
20
30
40
CARBON NUMBER
OEP VALUE
10^-1
10^0
10^1
10^2
10
20
30
40
CARBON NUMBER

Figure 1.a

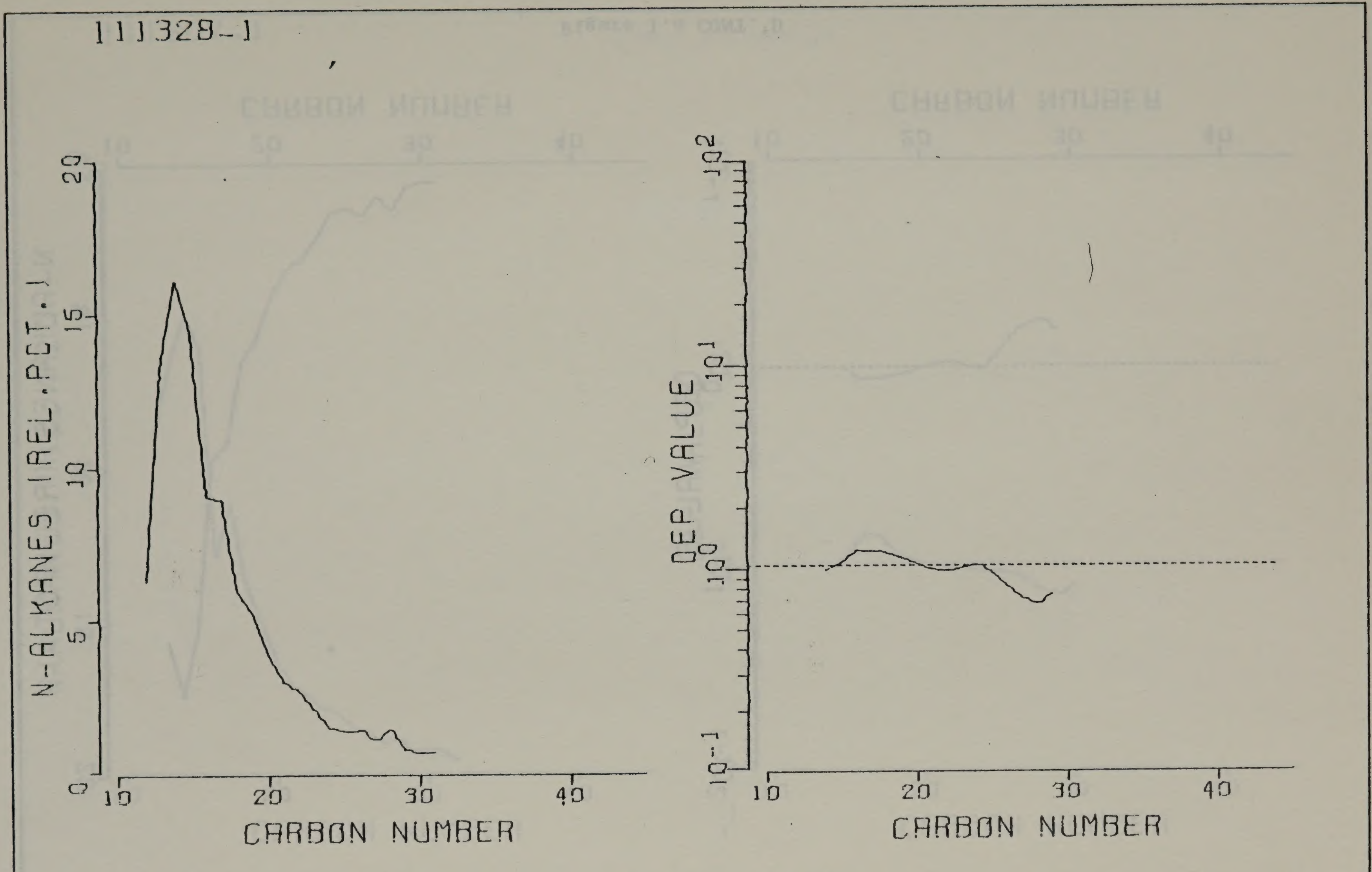
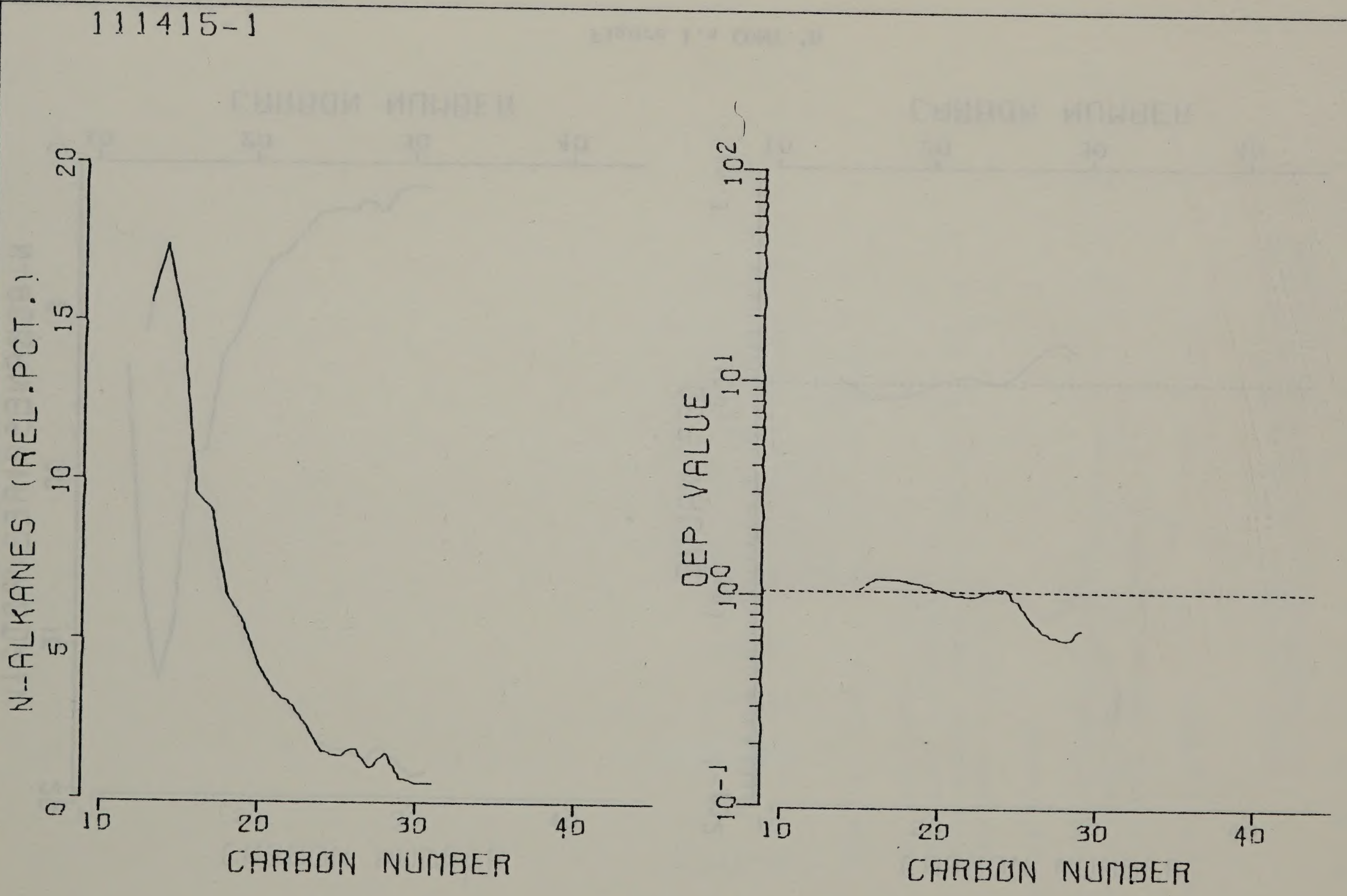


Figure 1.a CONT.'D



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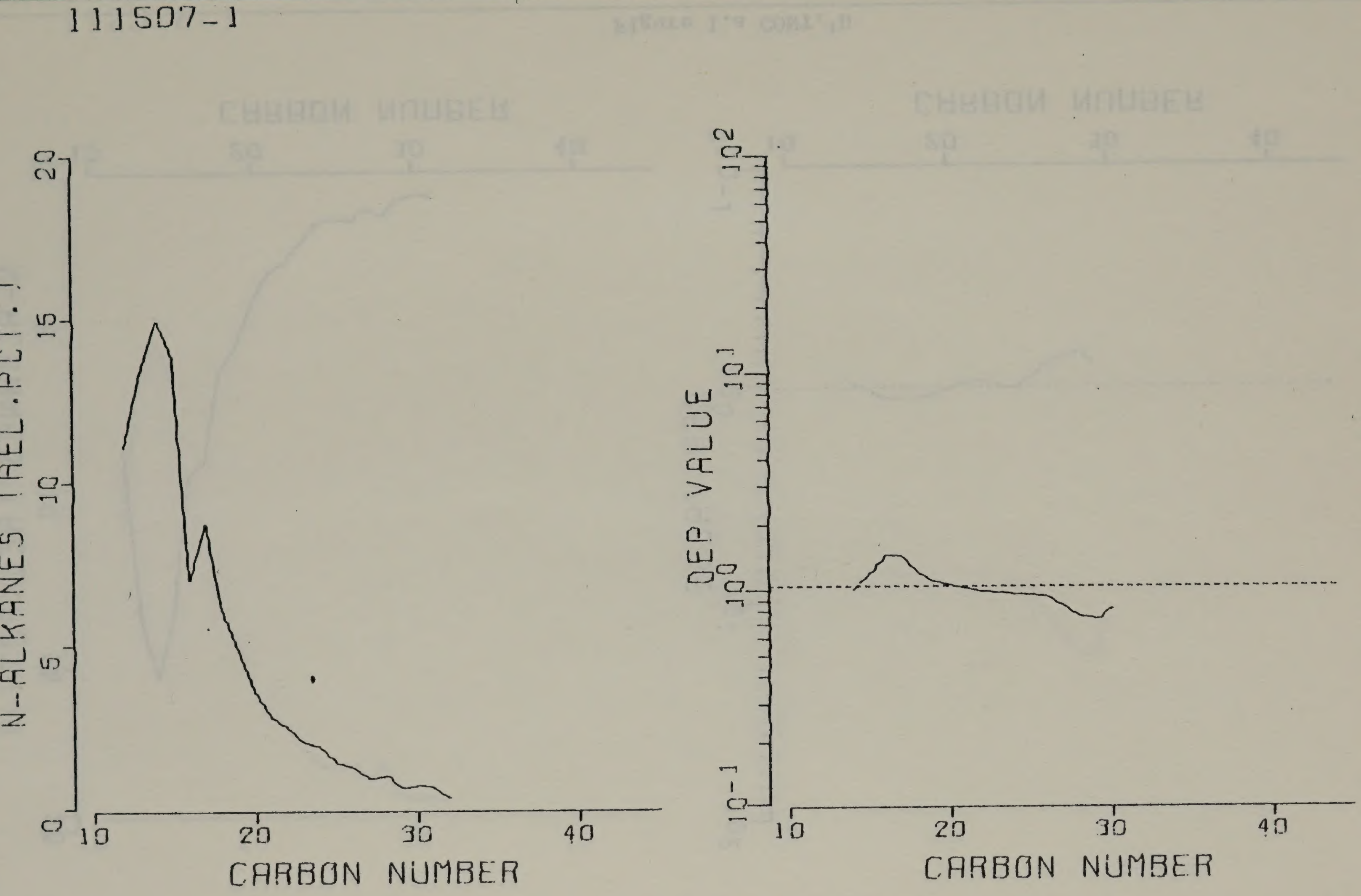

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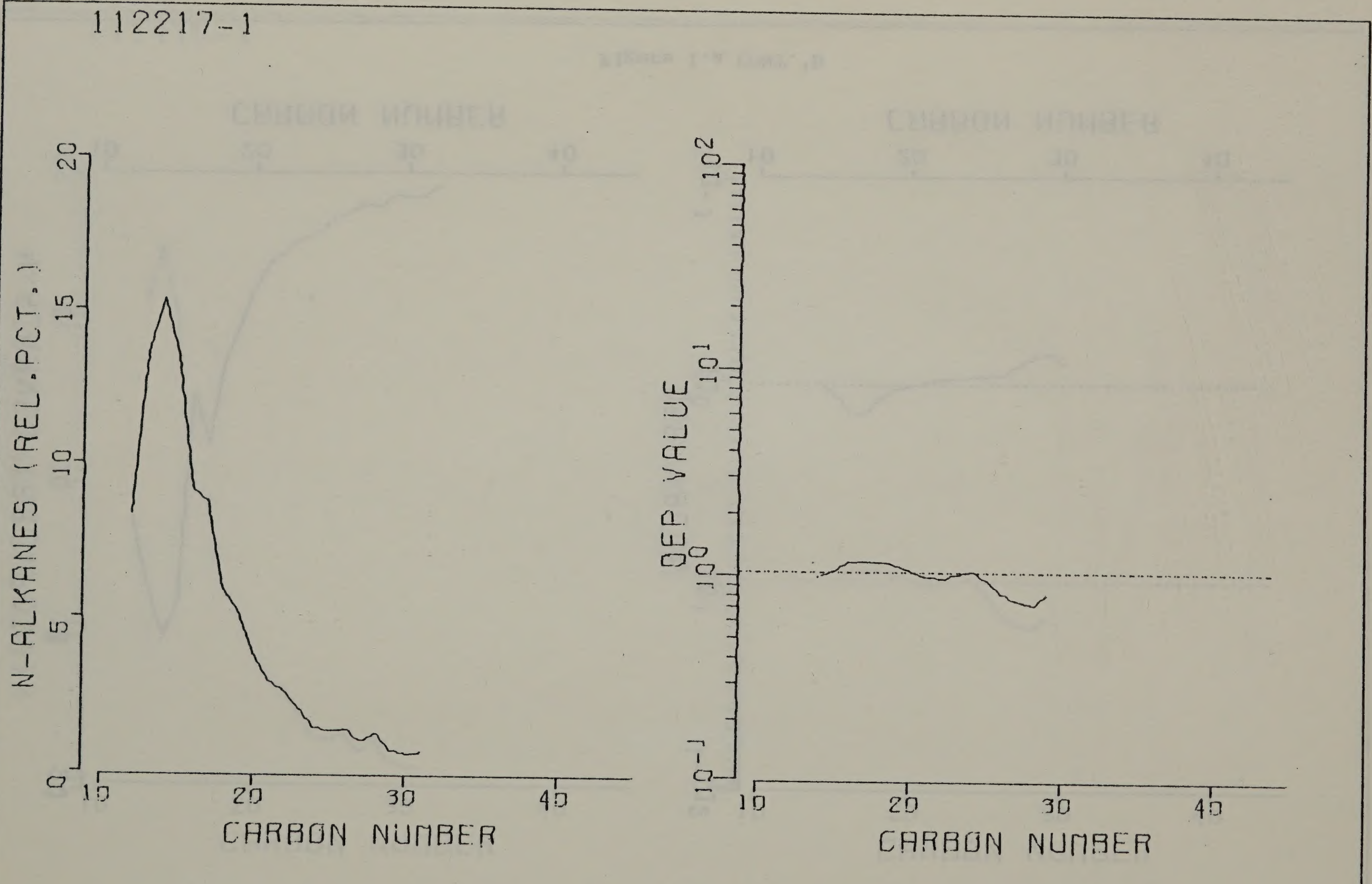

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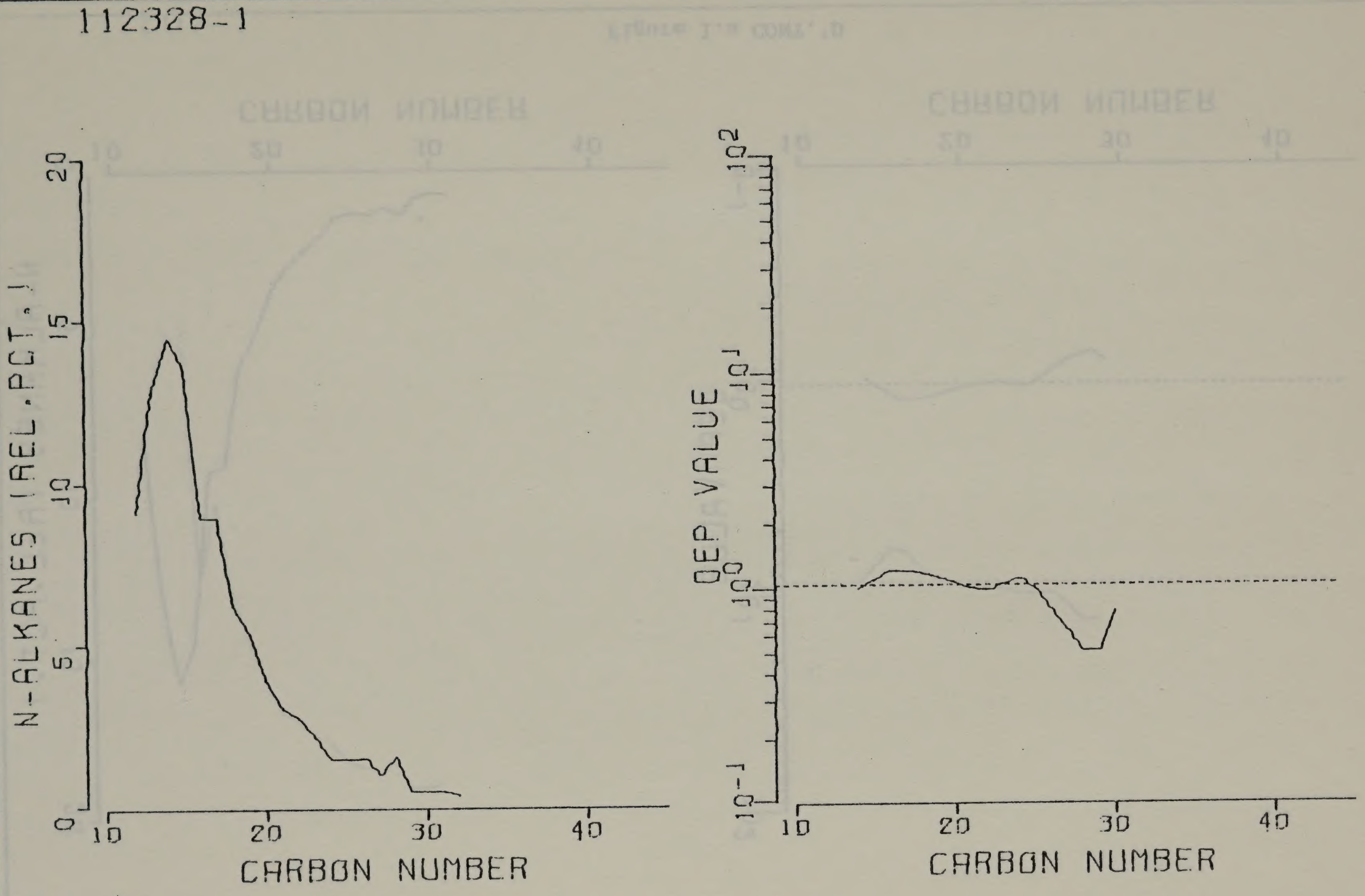

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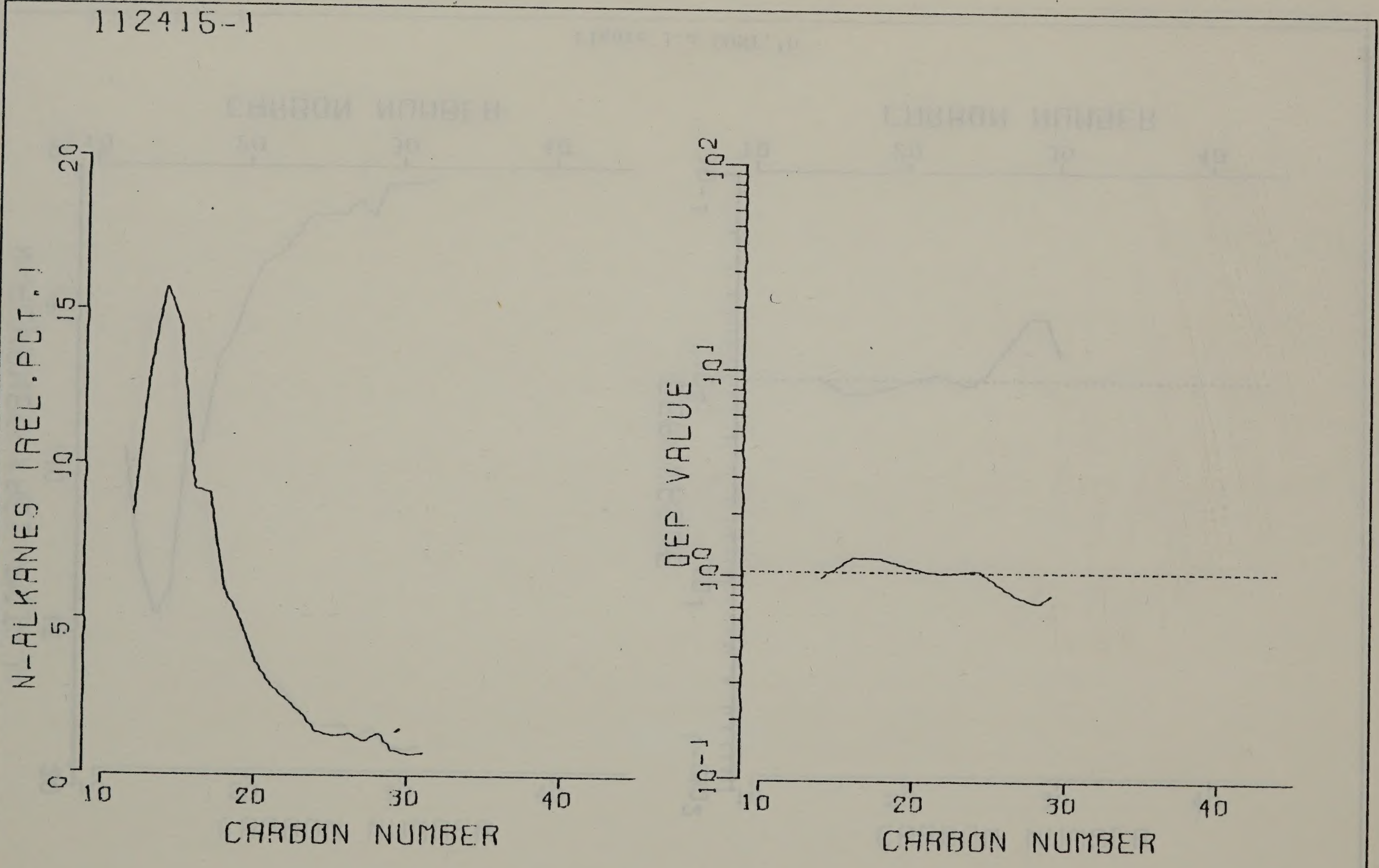
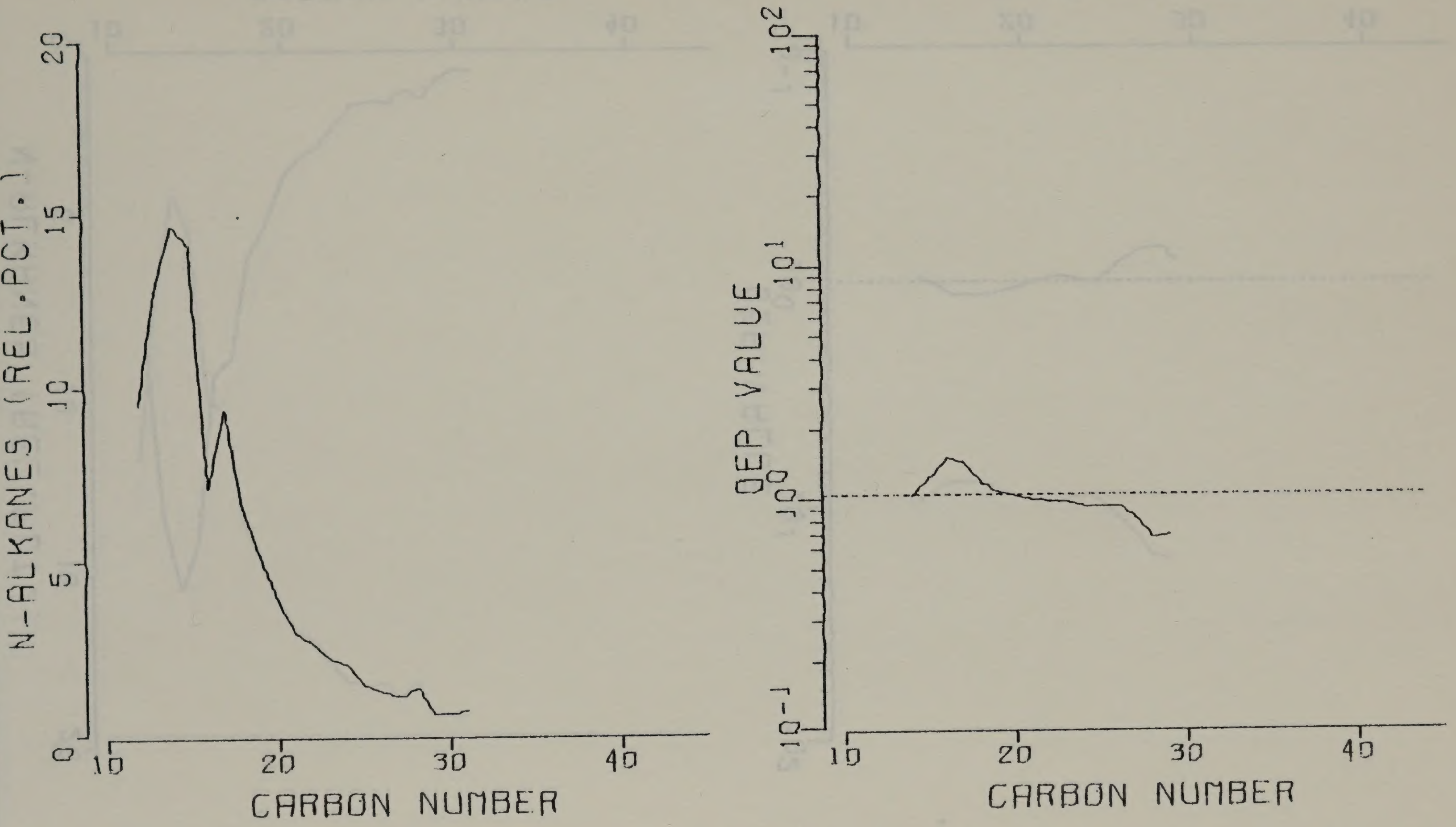


Figure 1.a CONT.'D

112507-1



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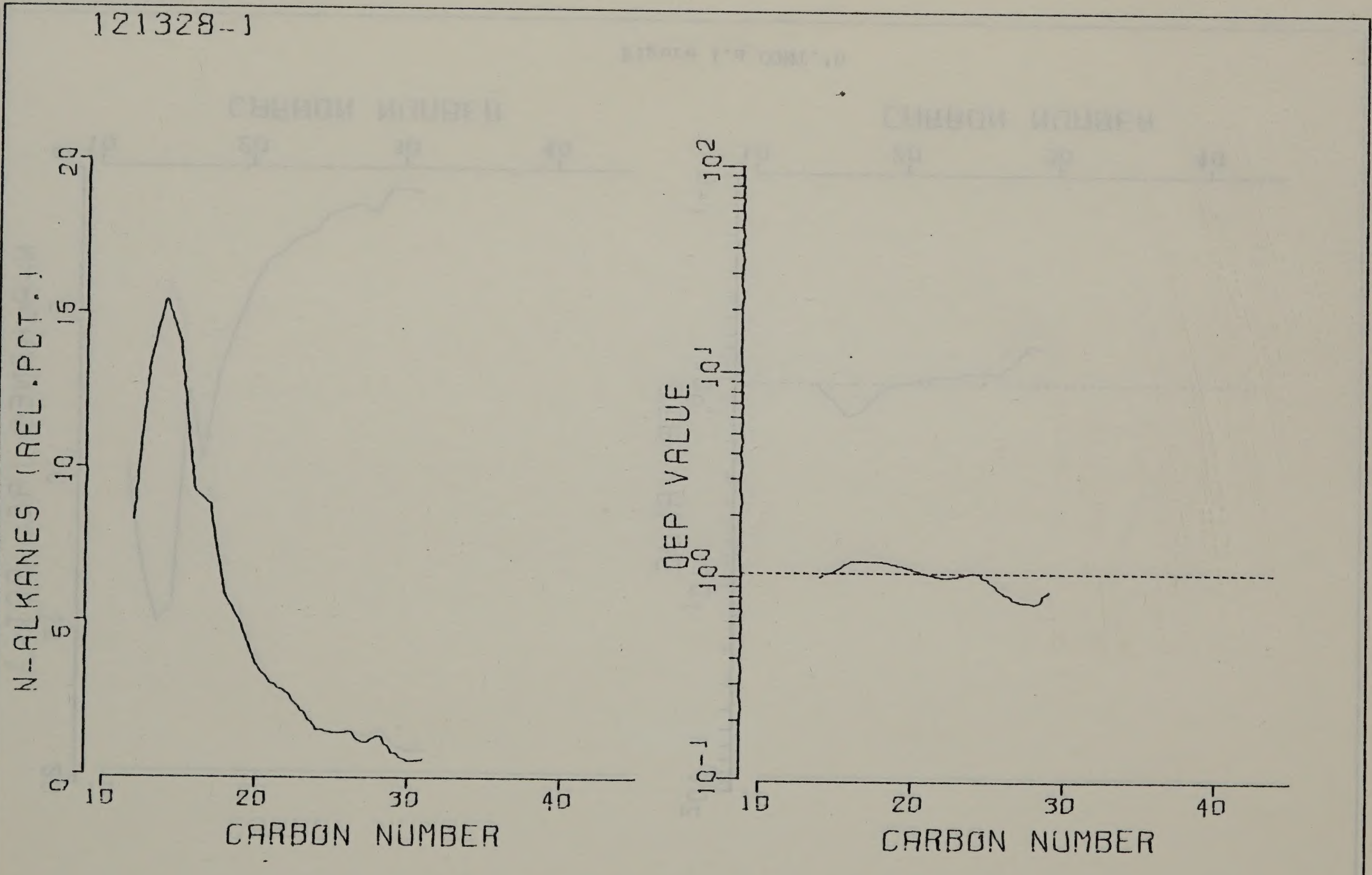

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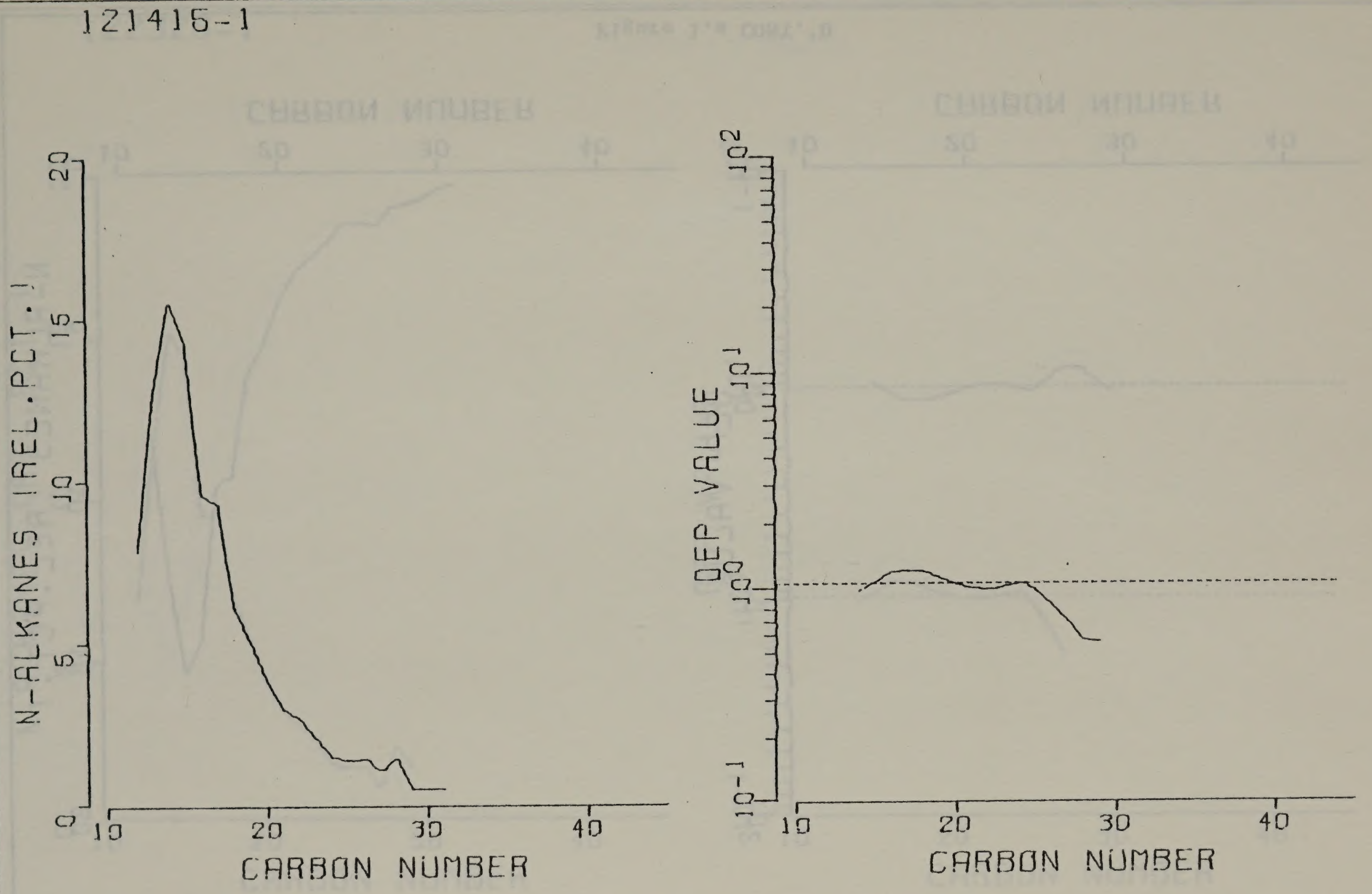

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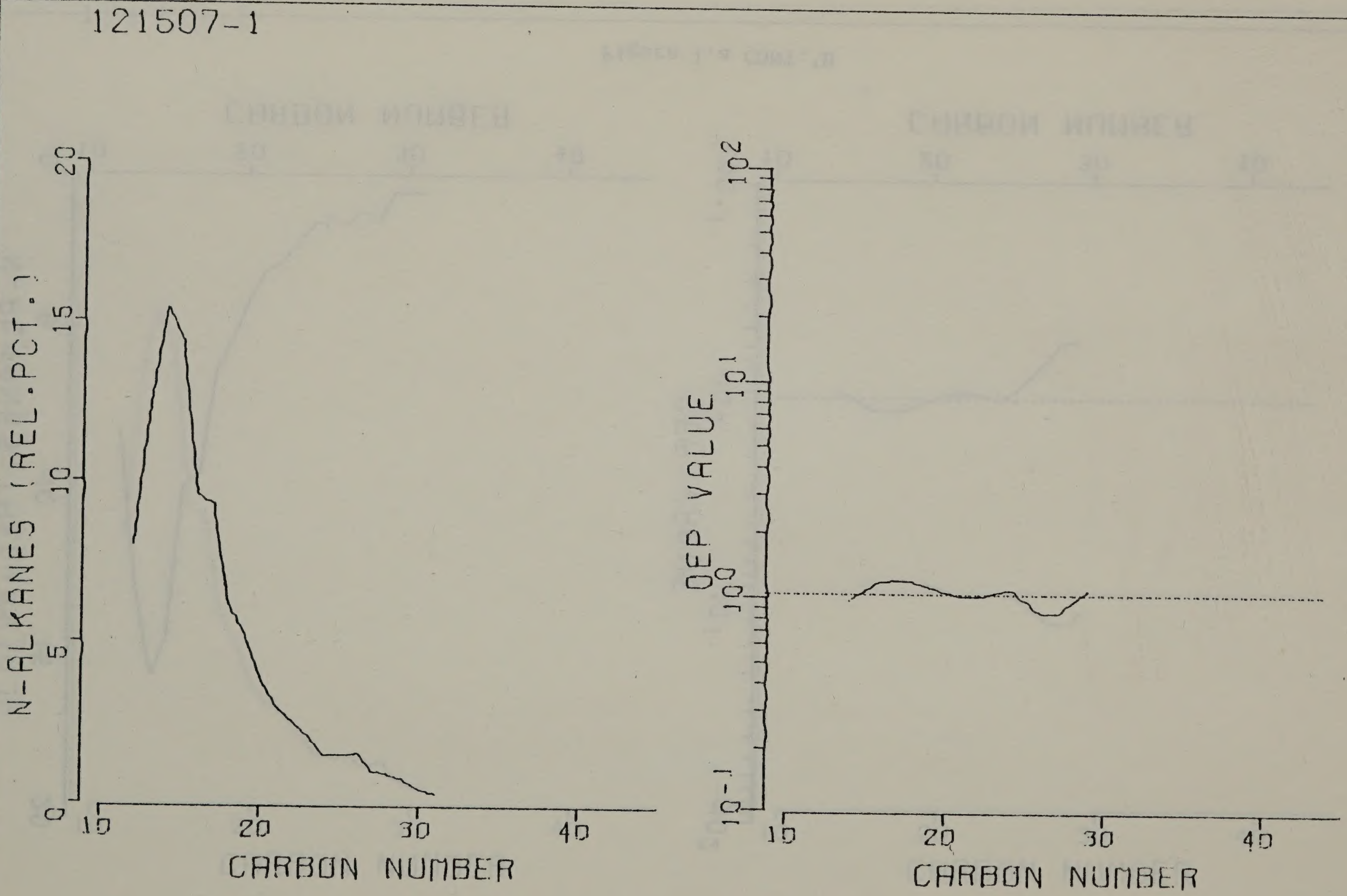

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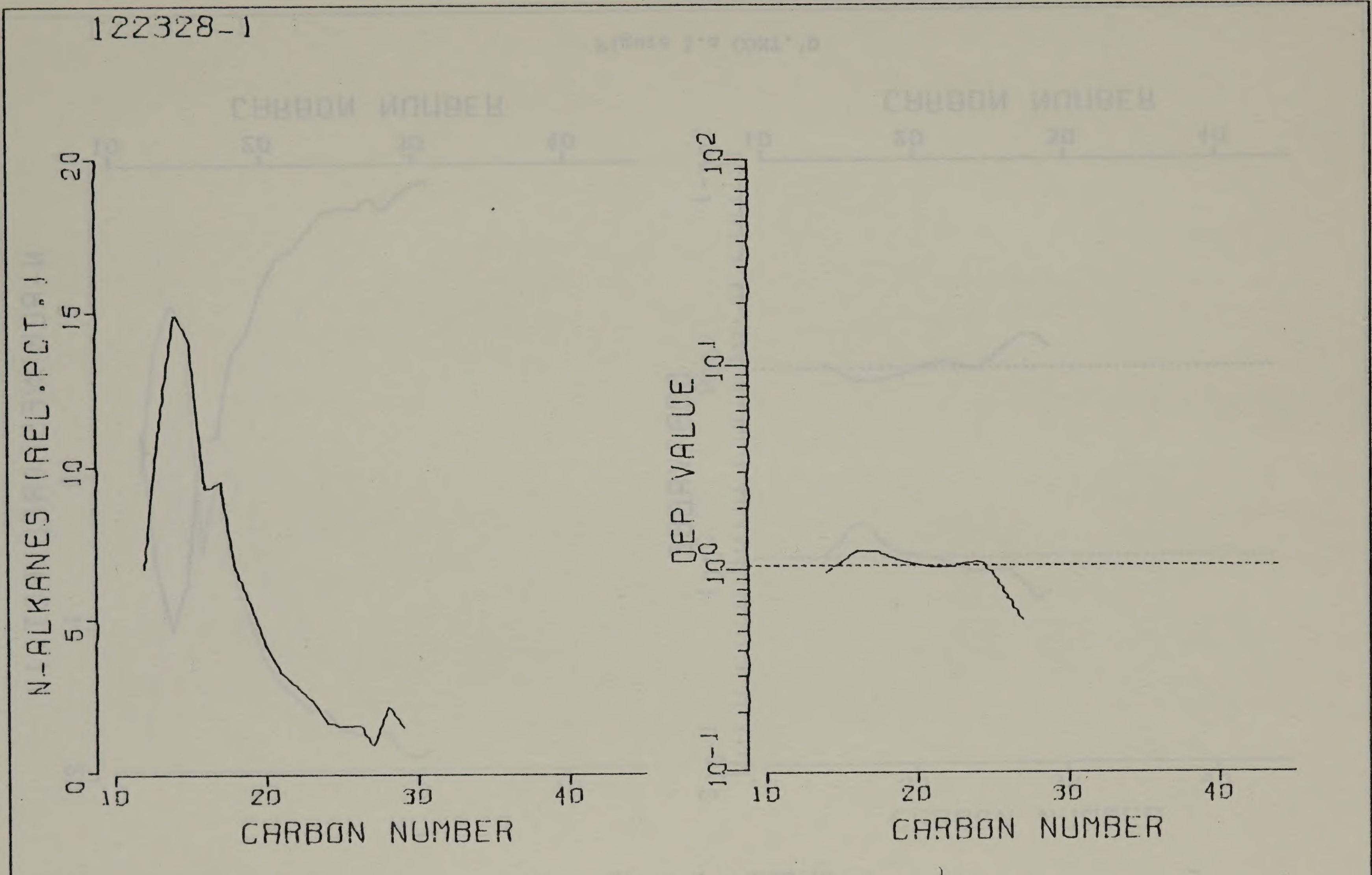

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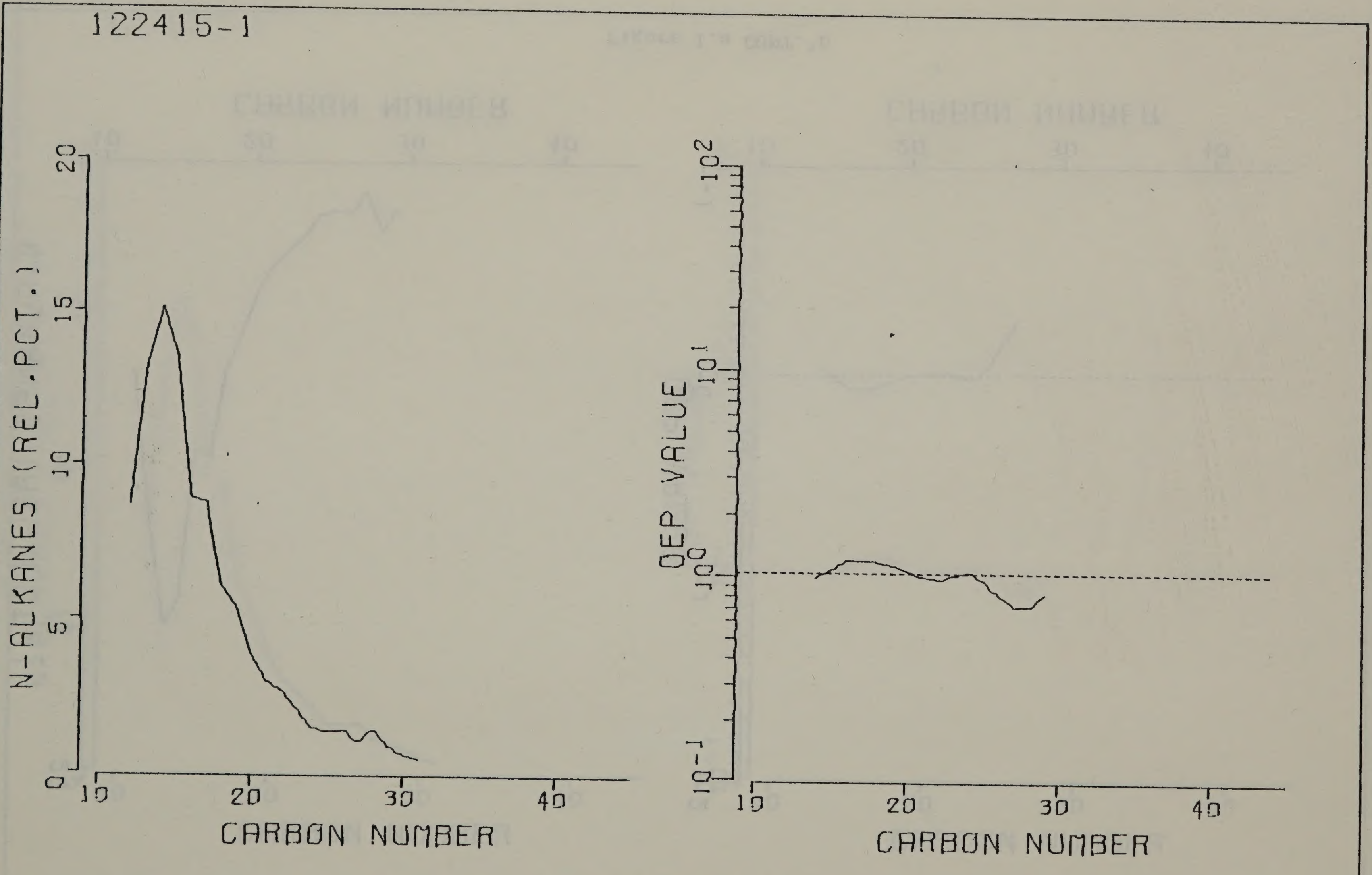

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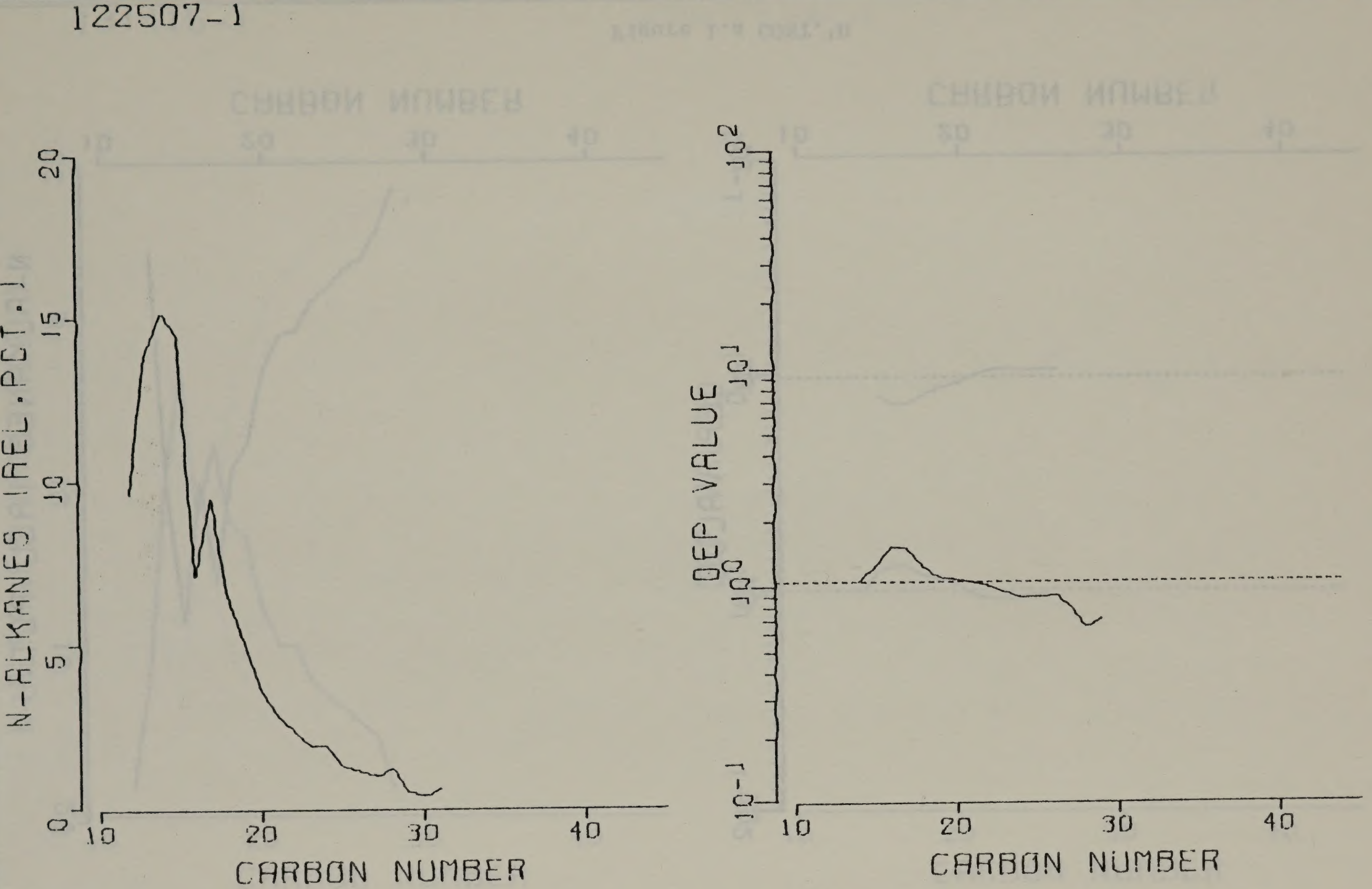

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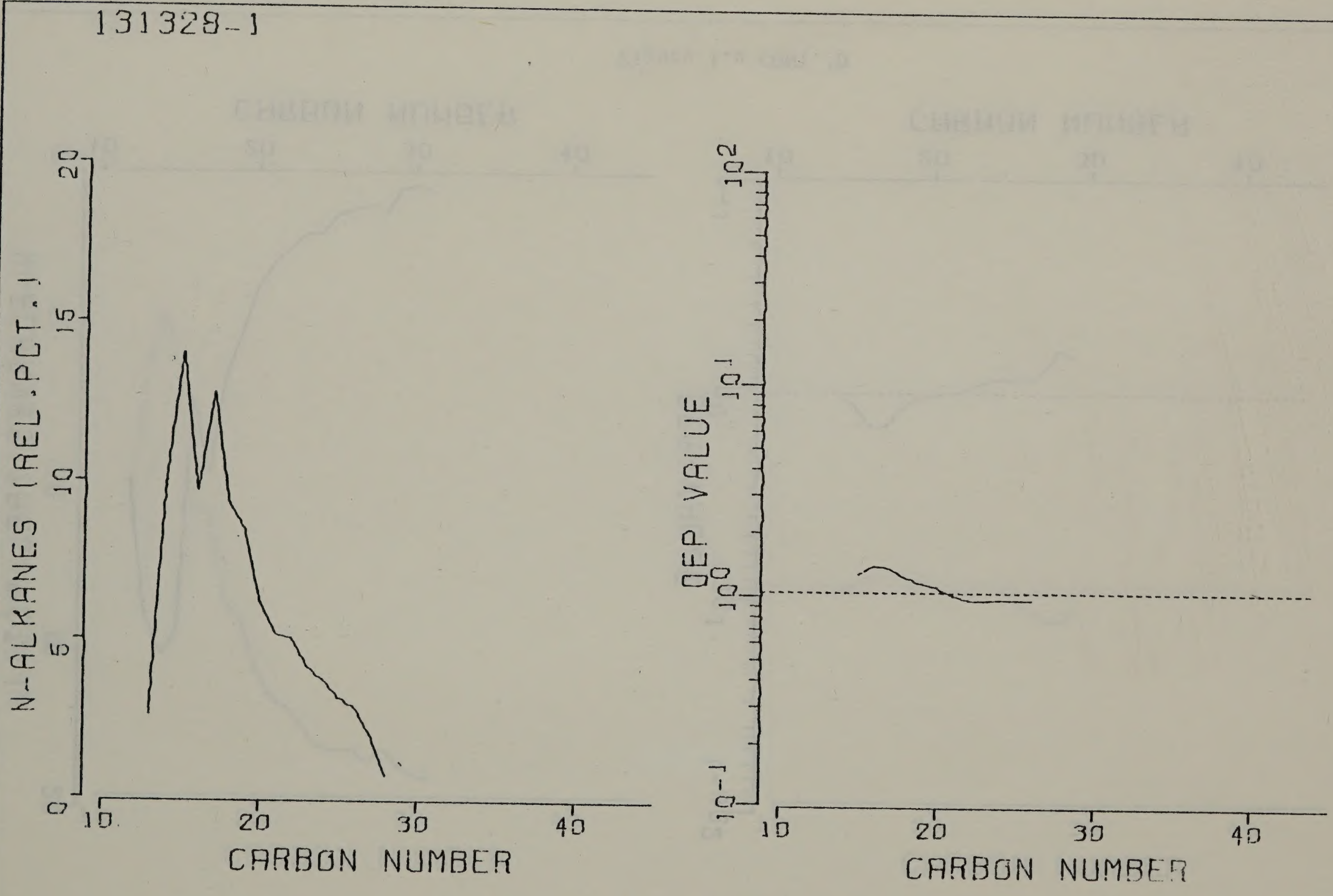

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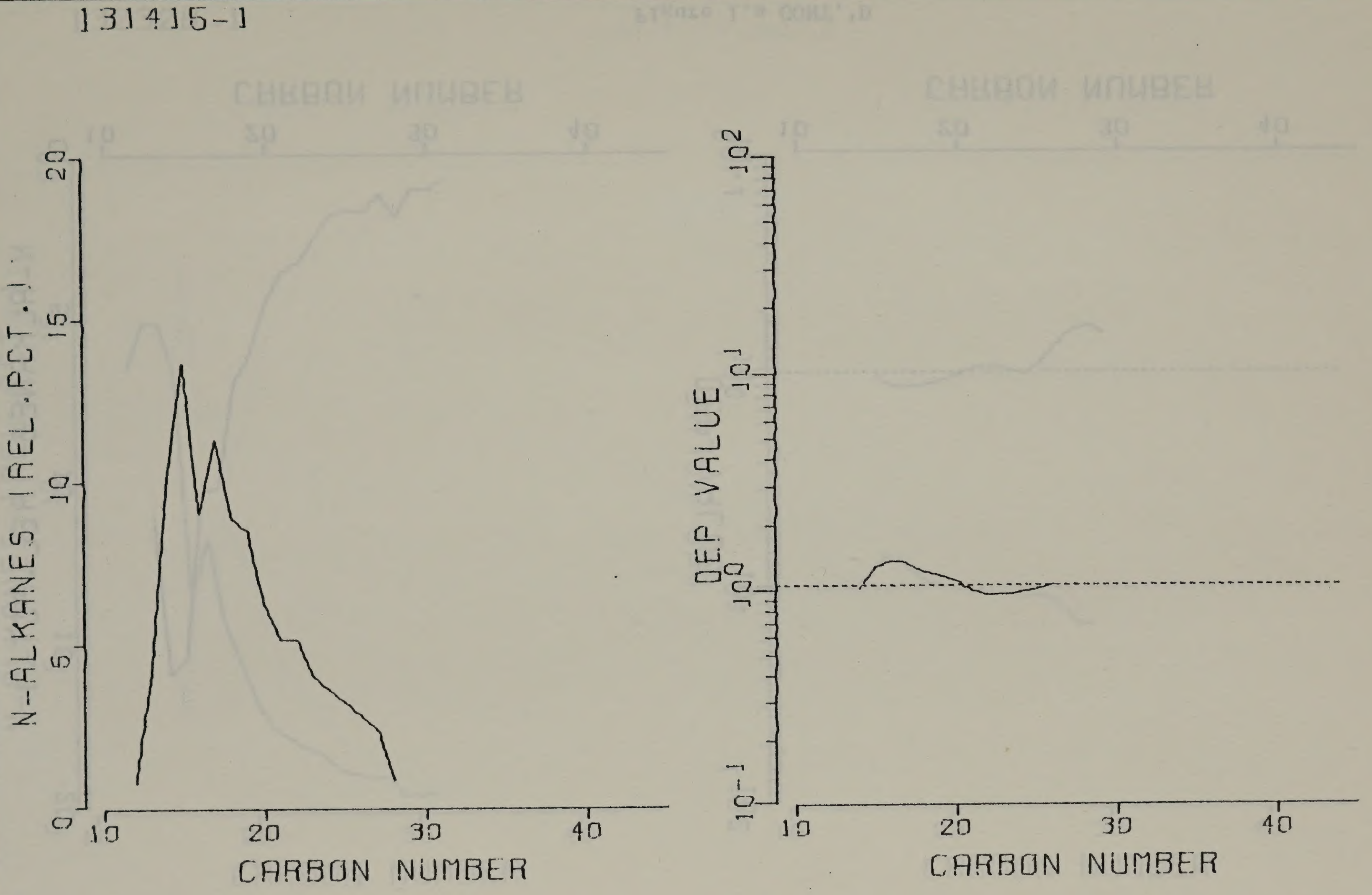

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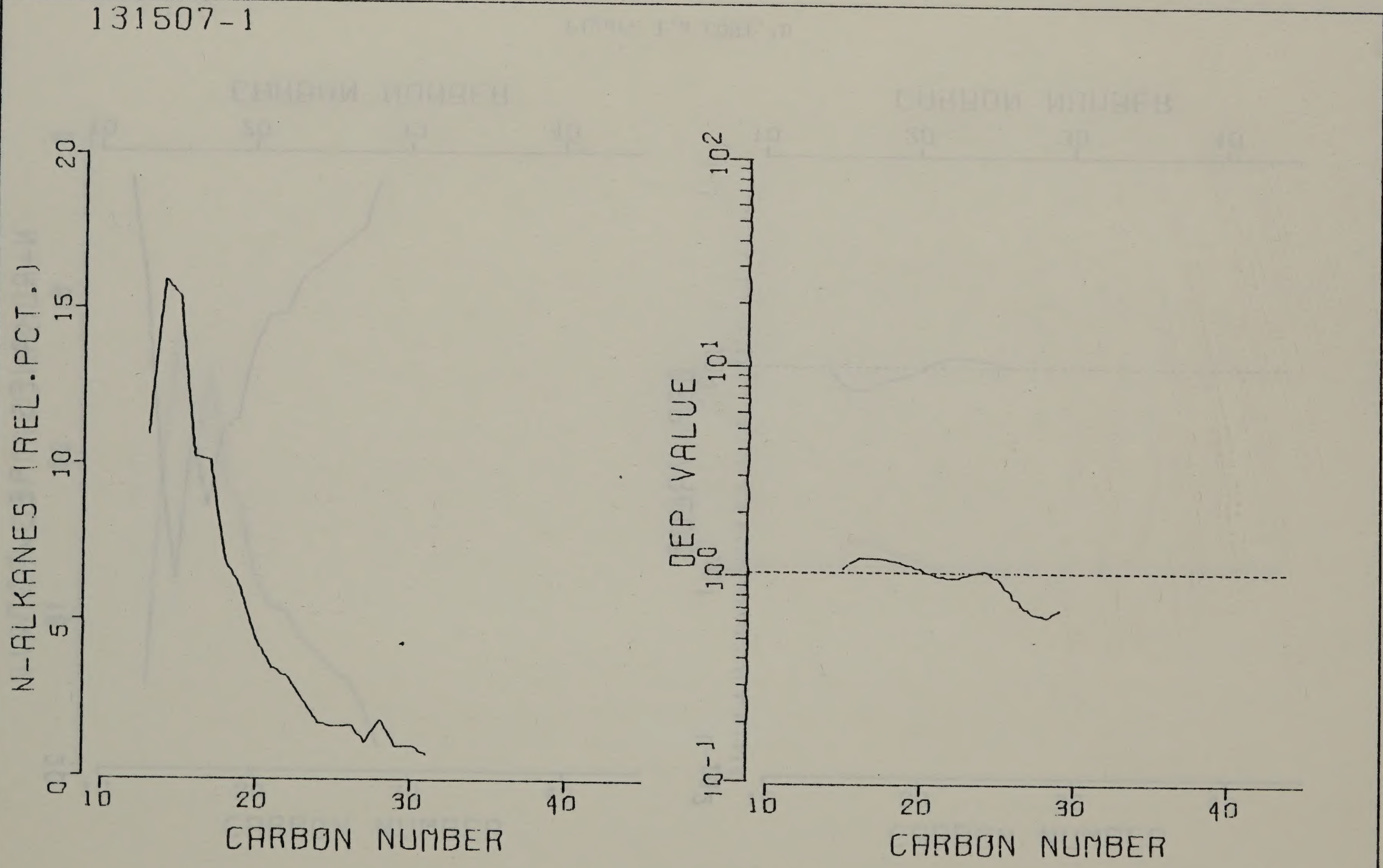

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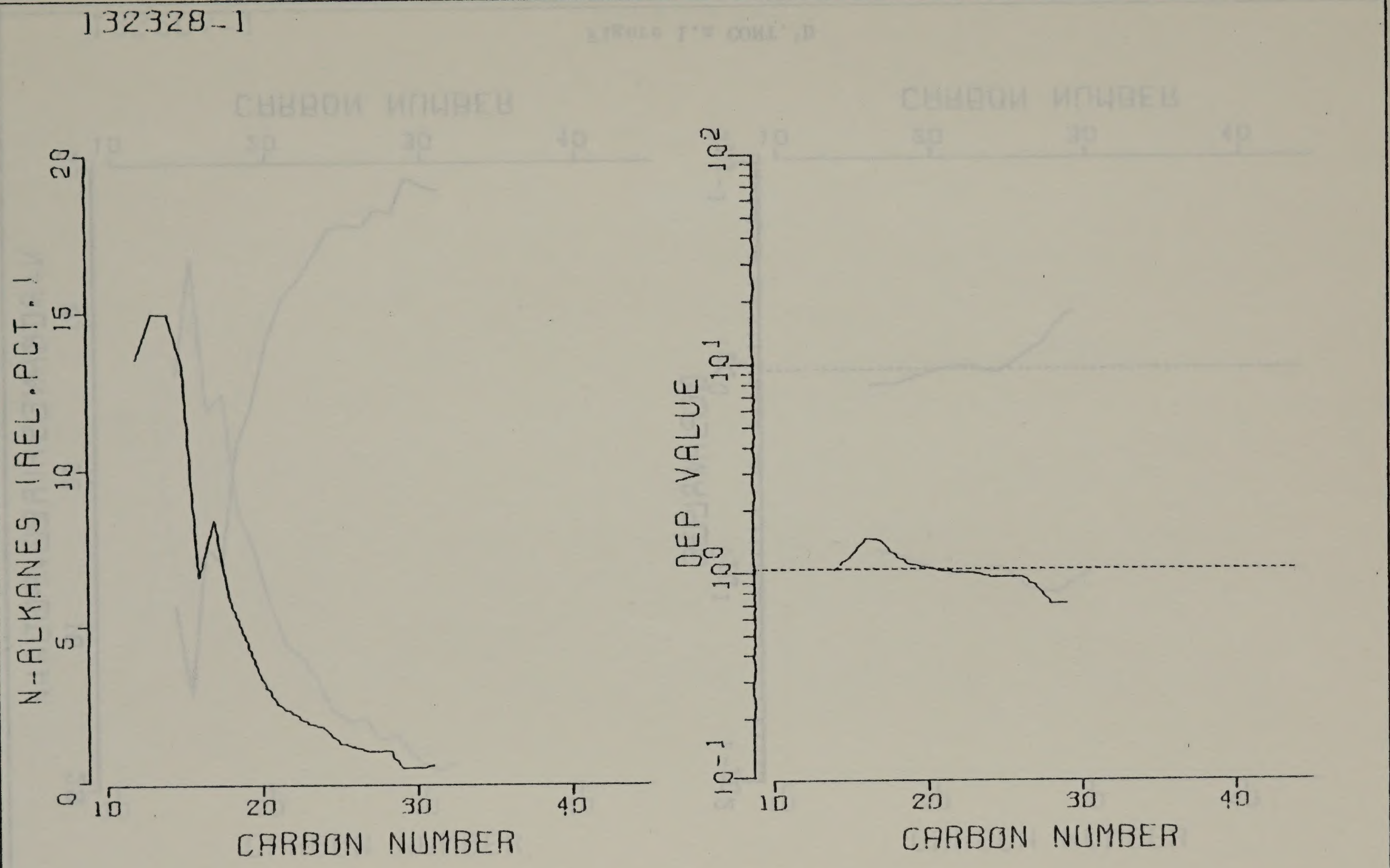

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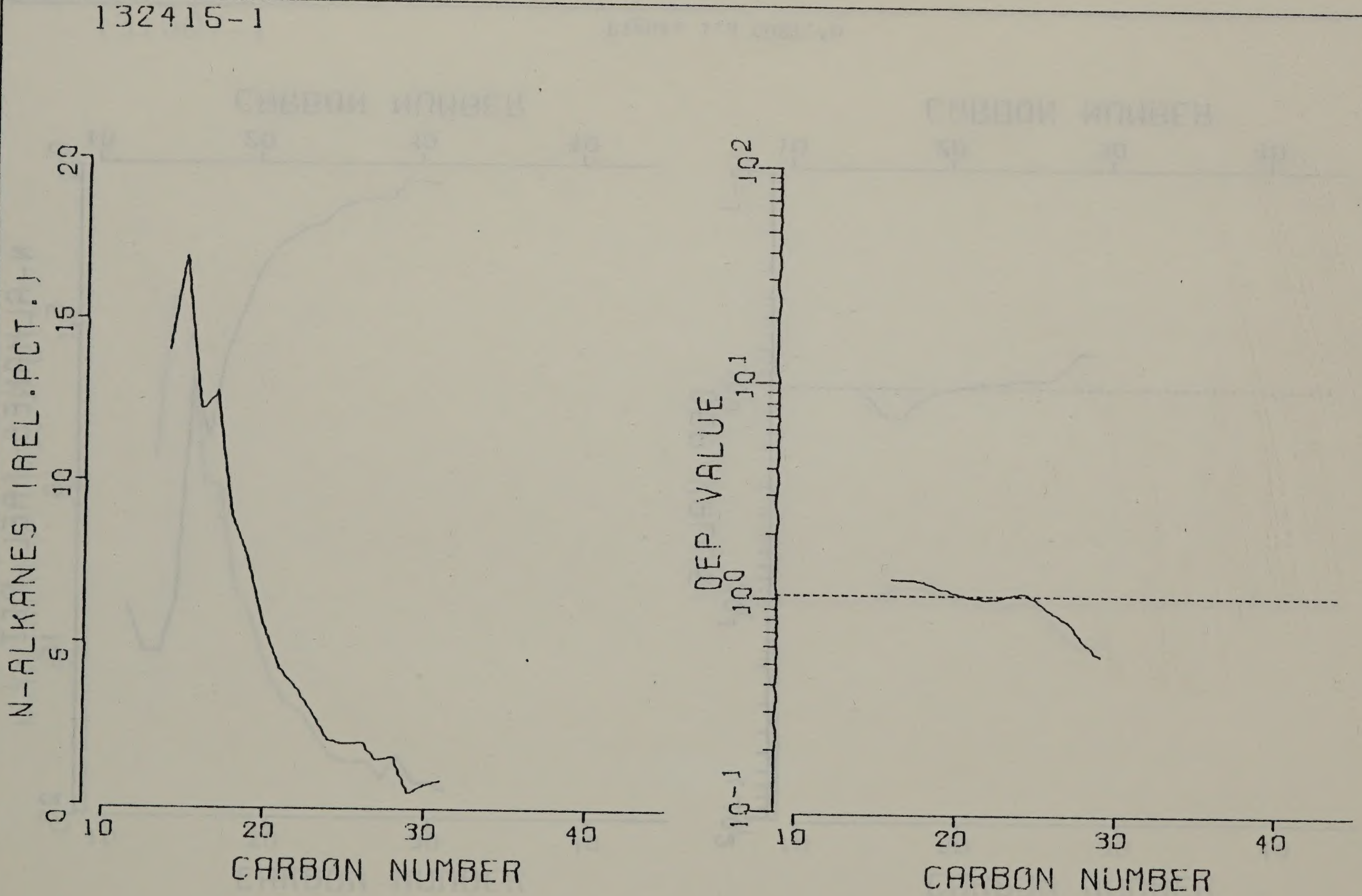

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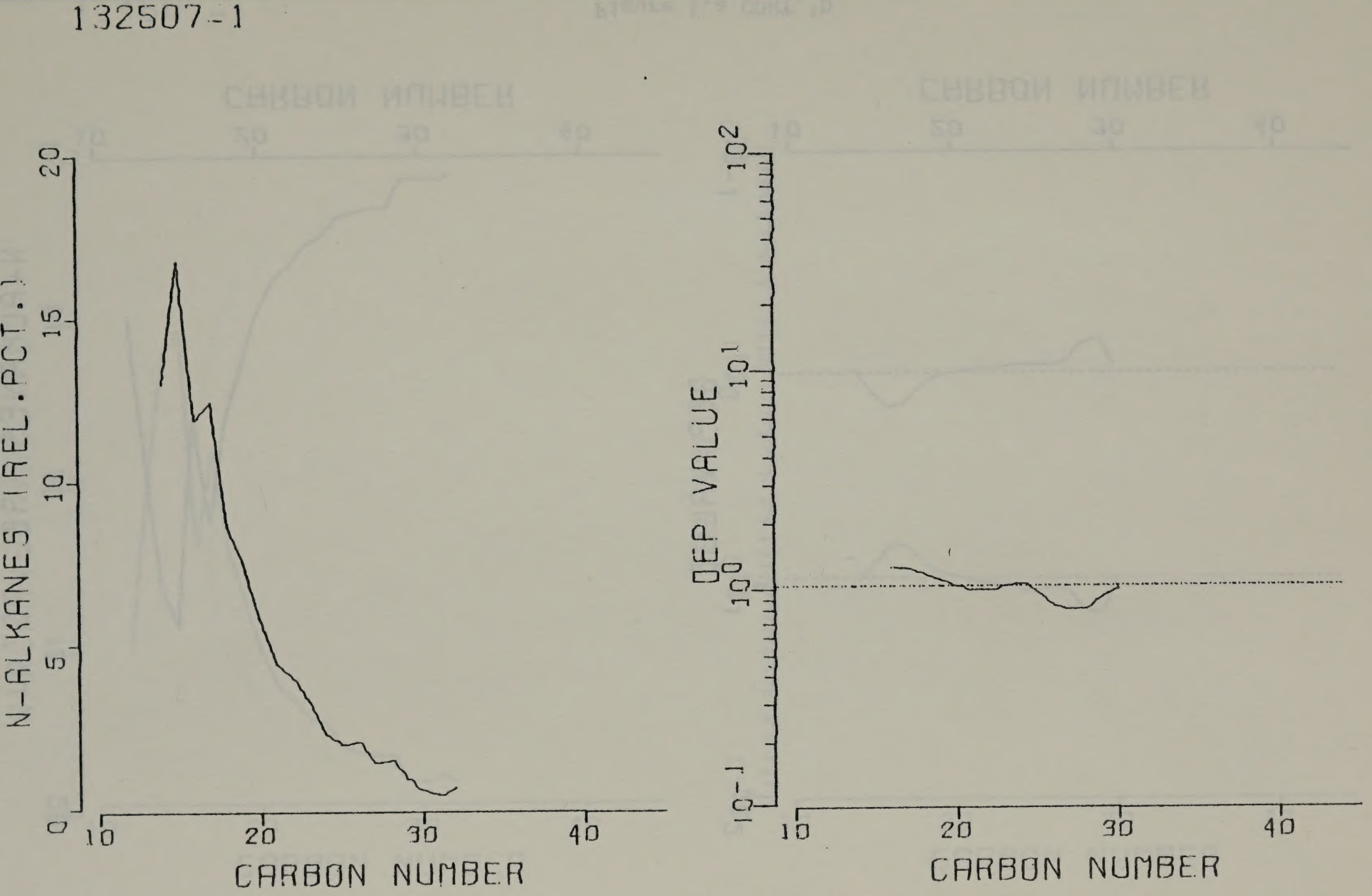

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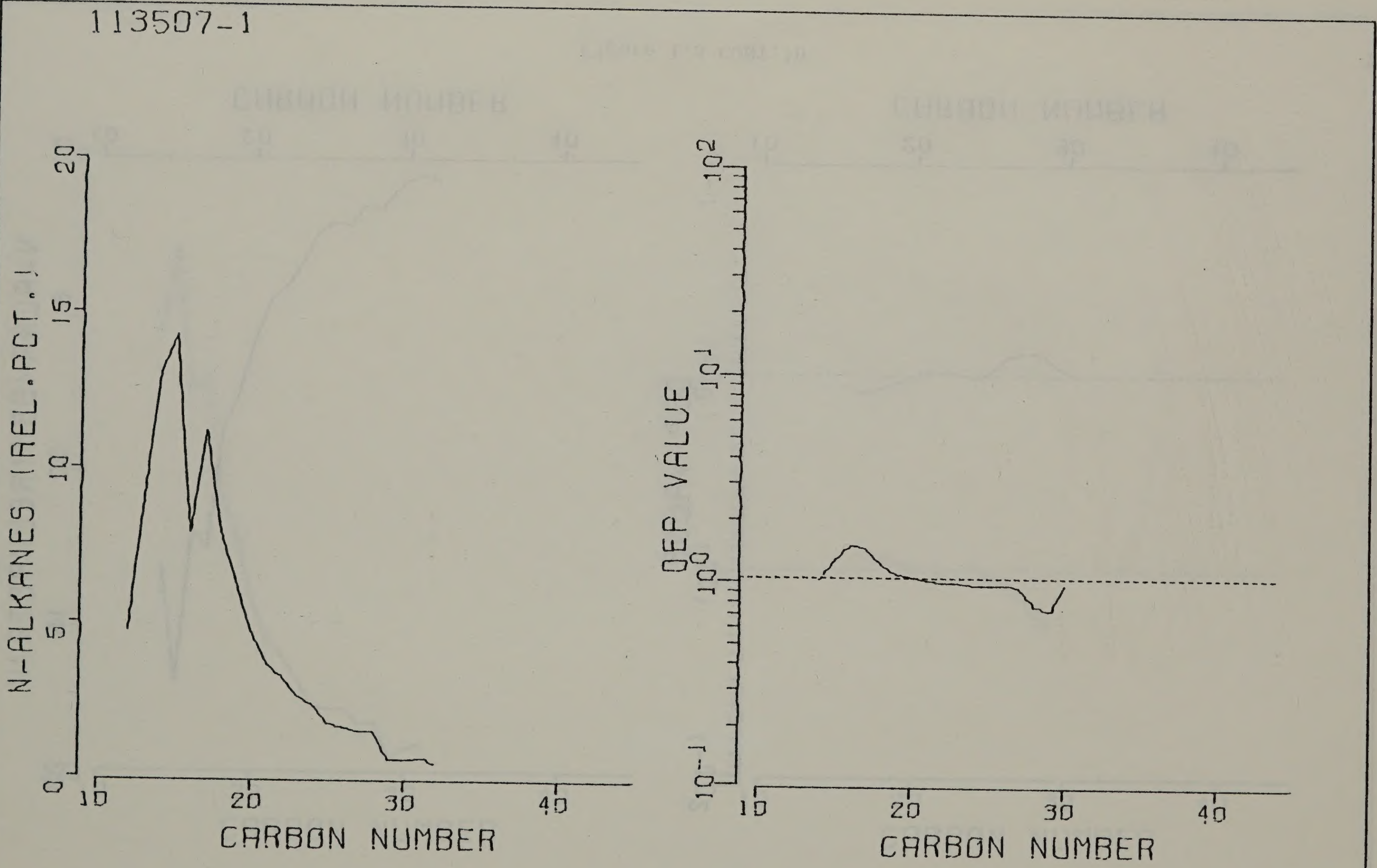

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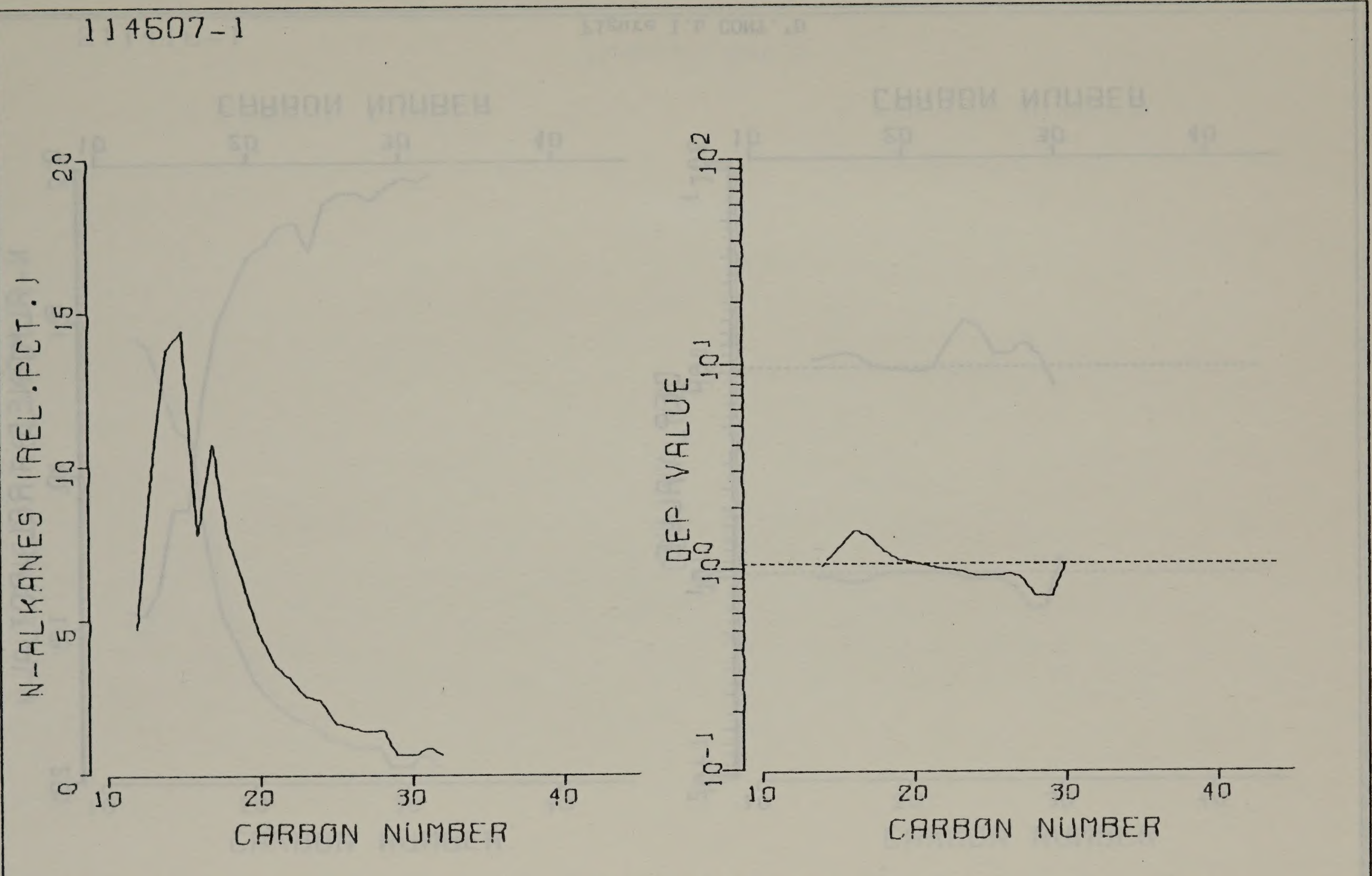

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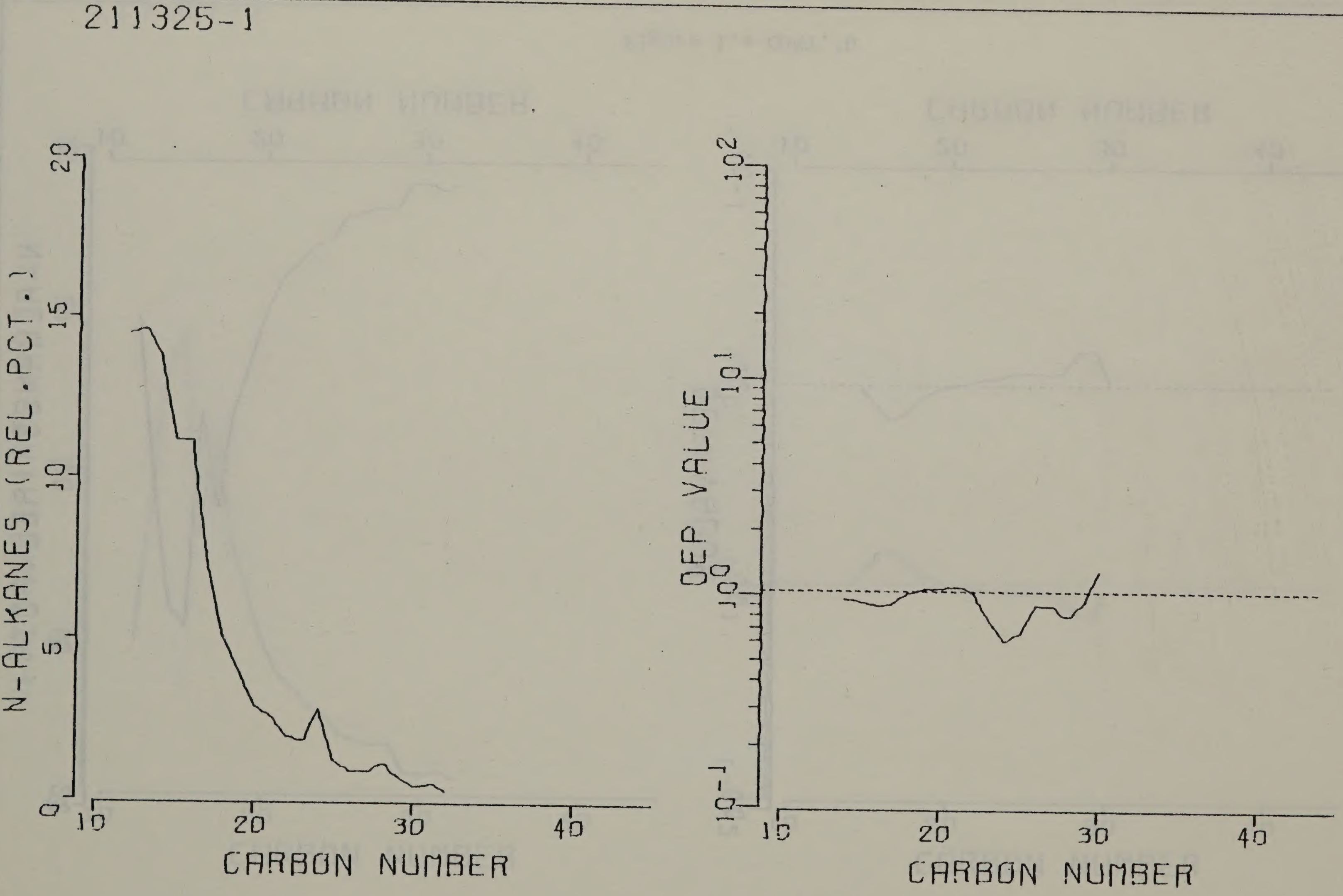

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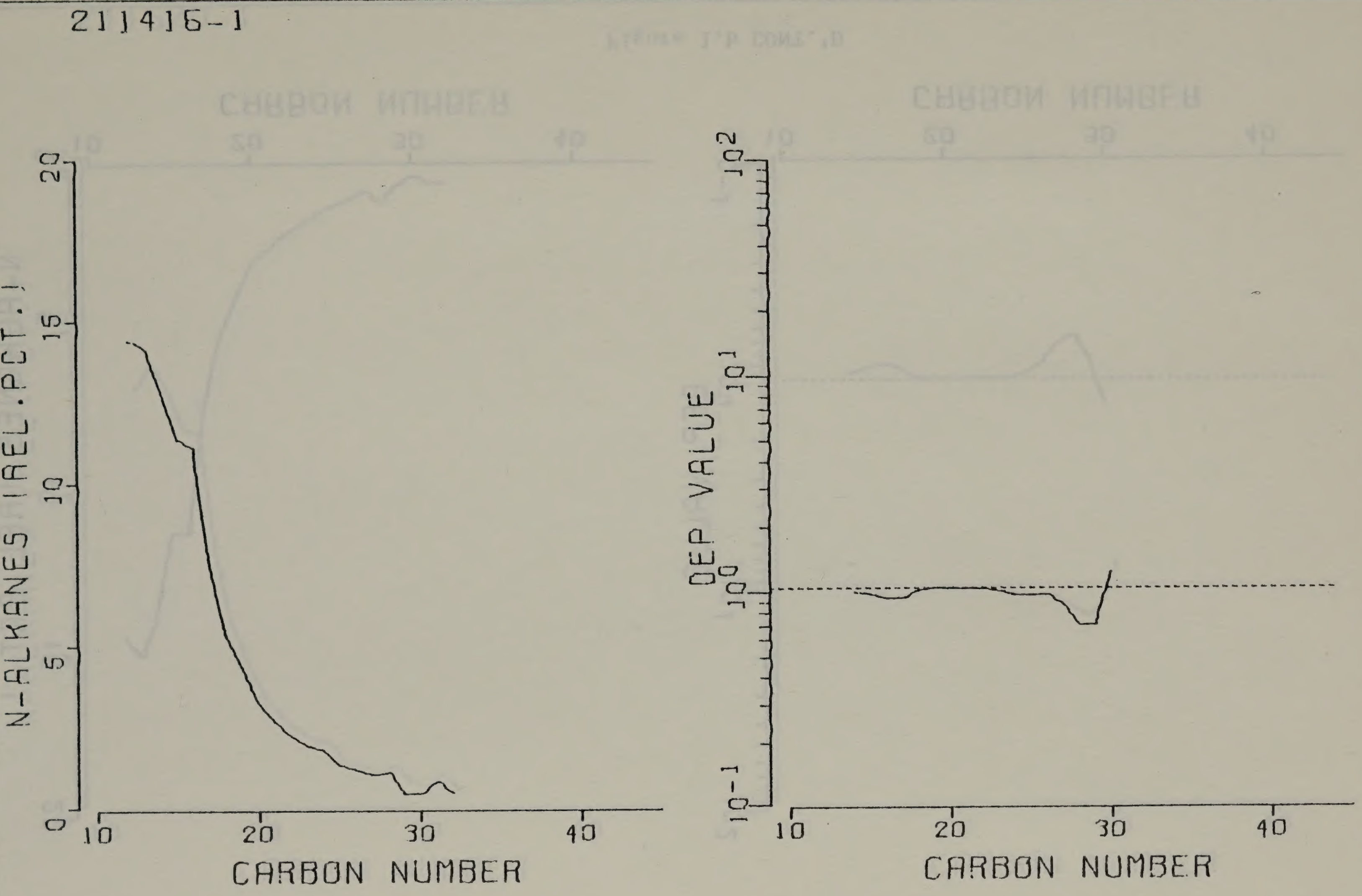

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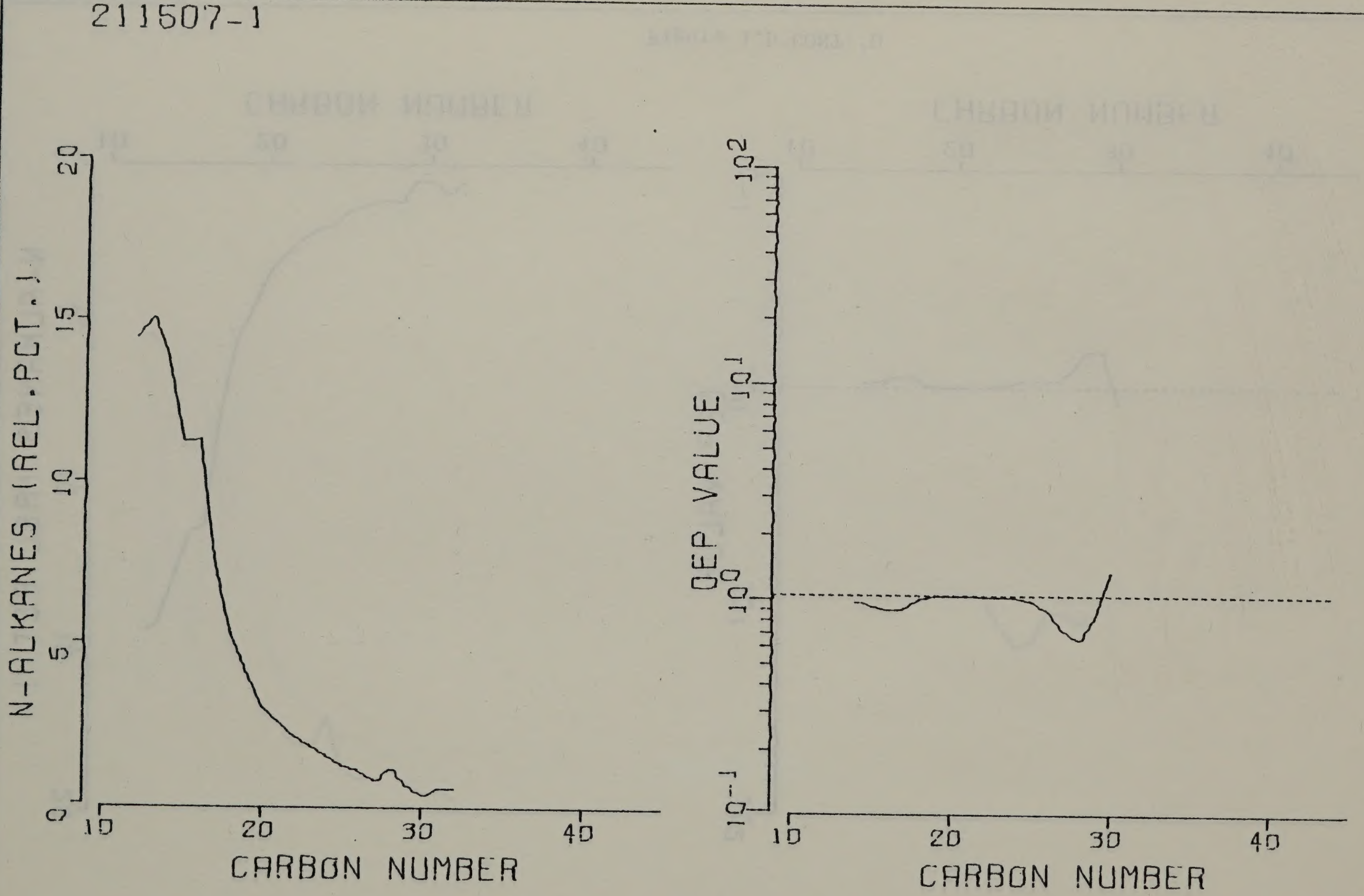

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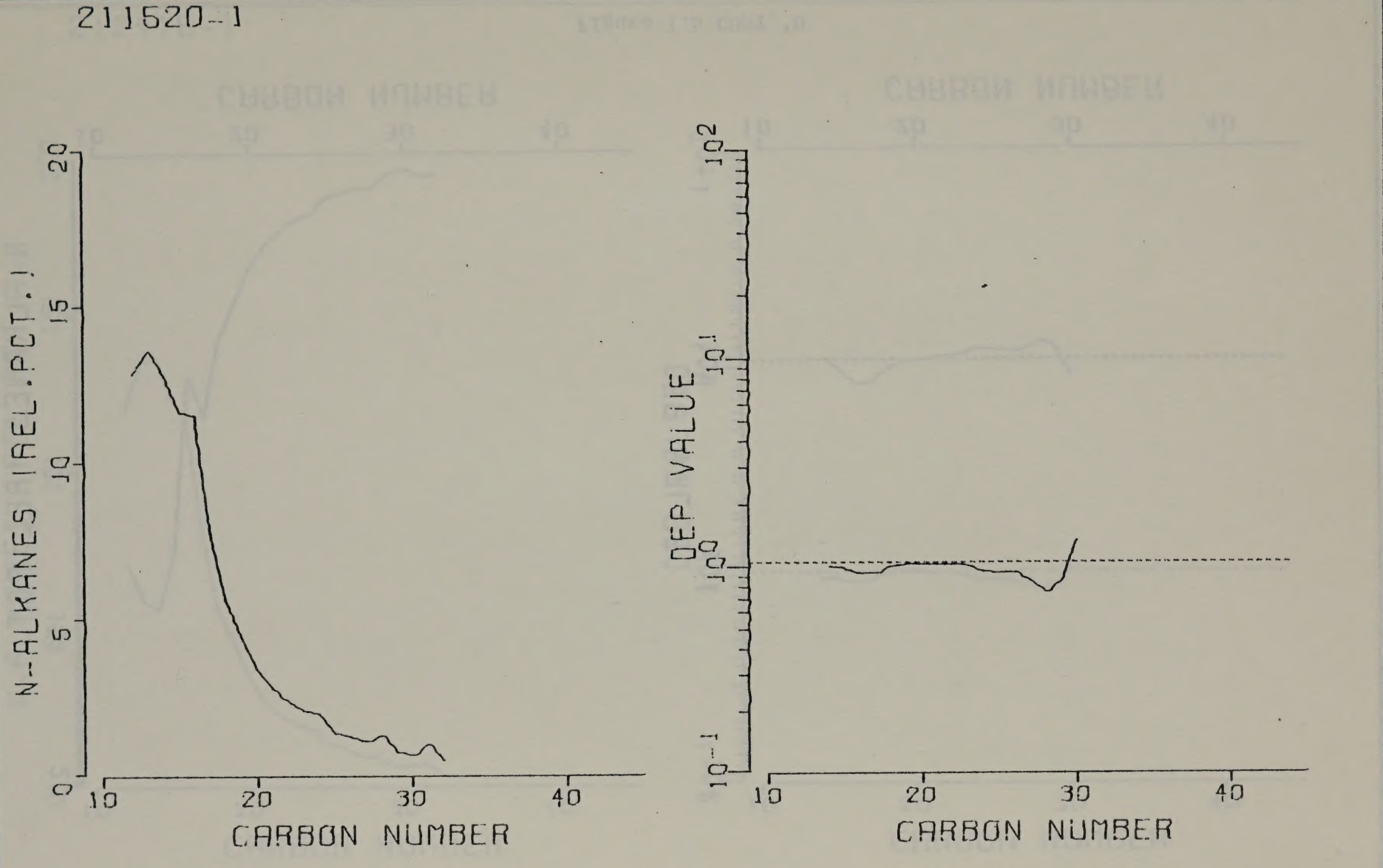

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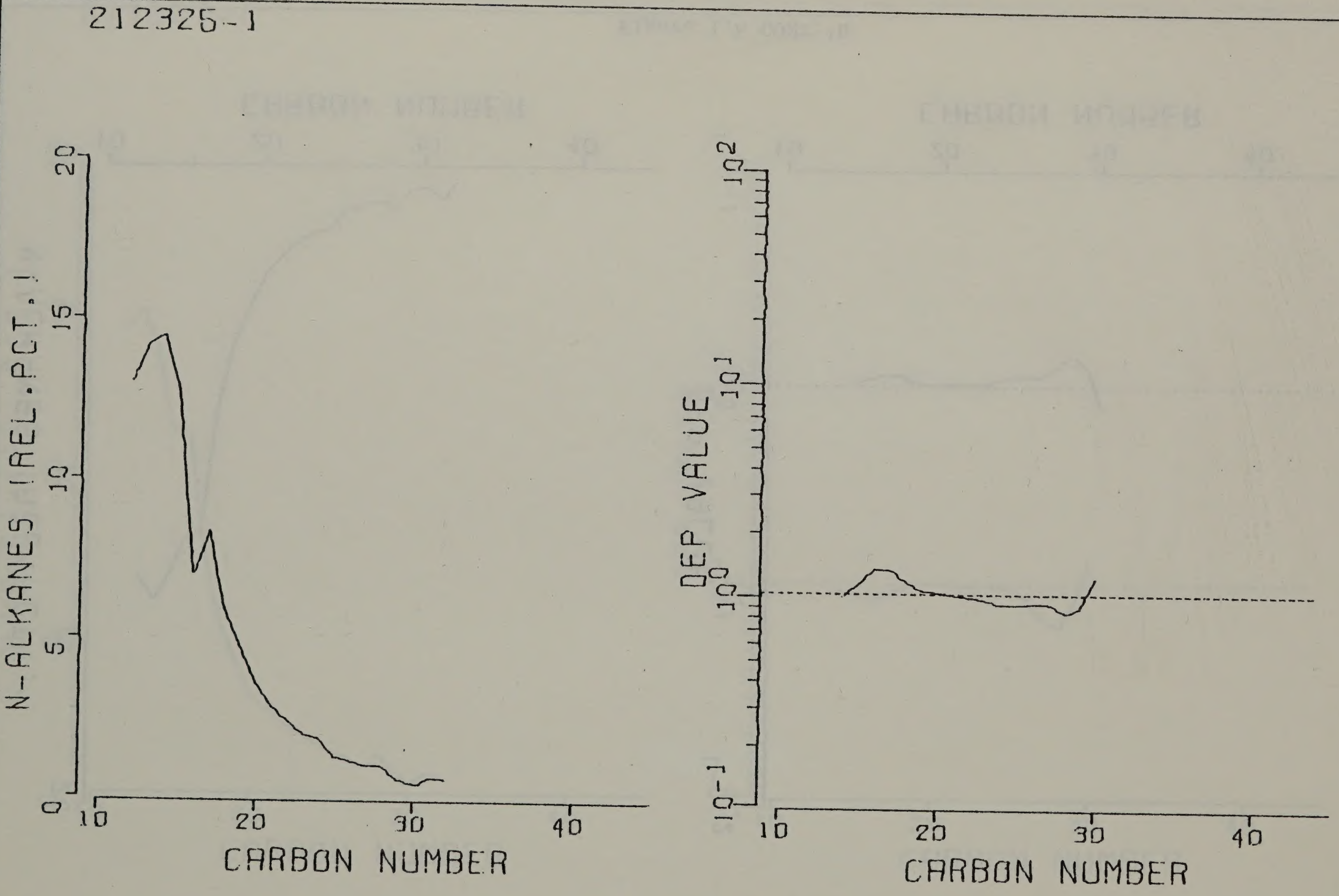

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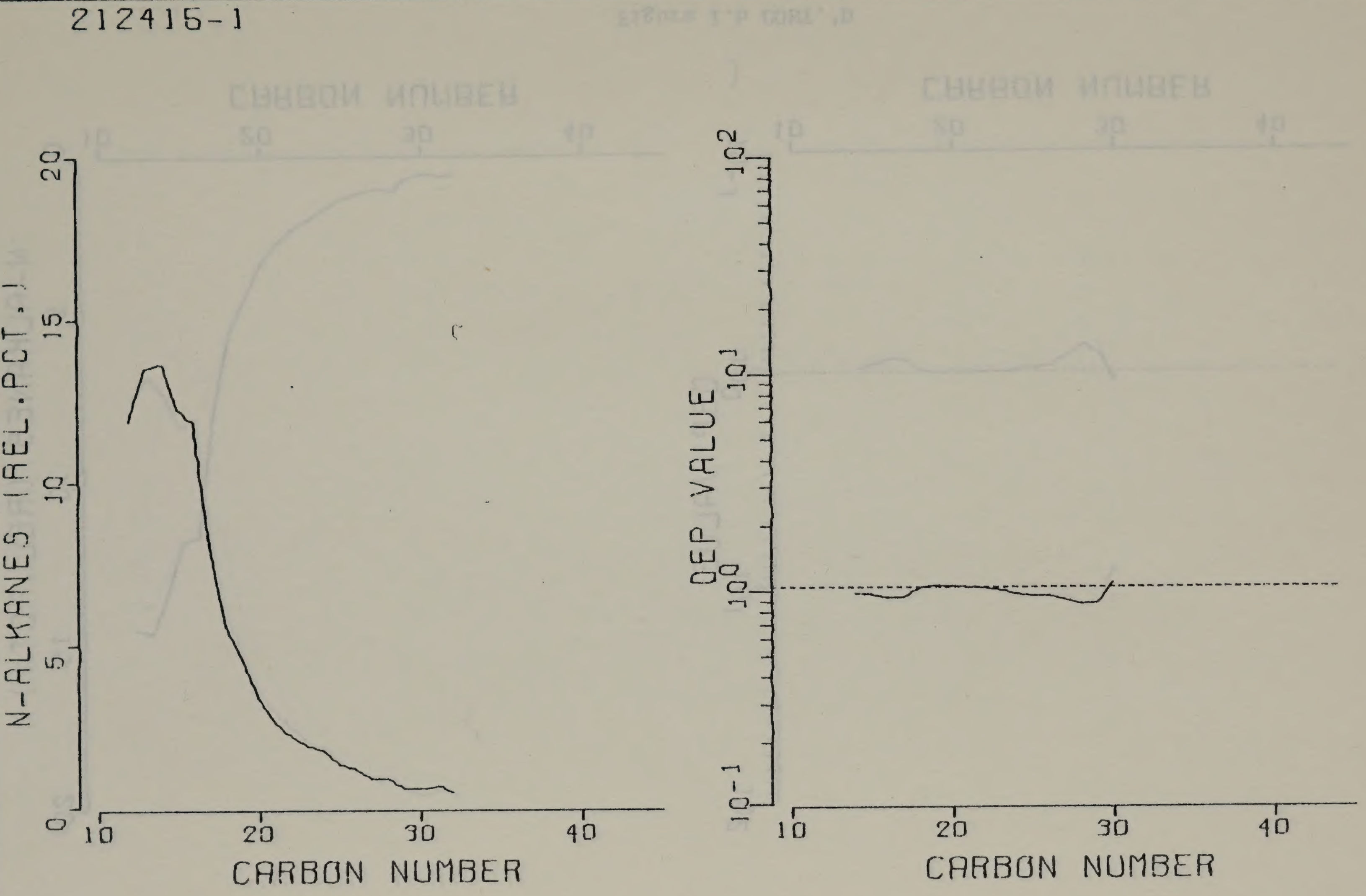

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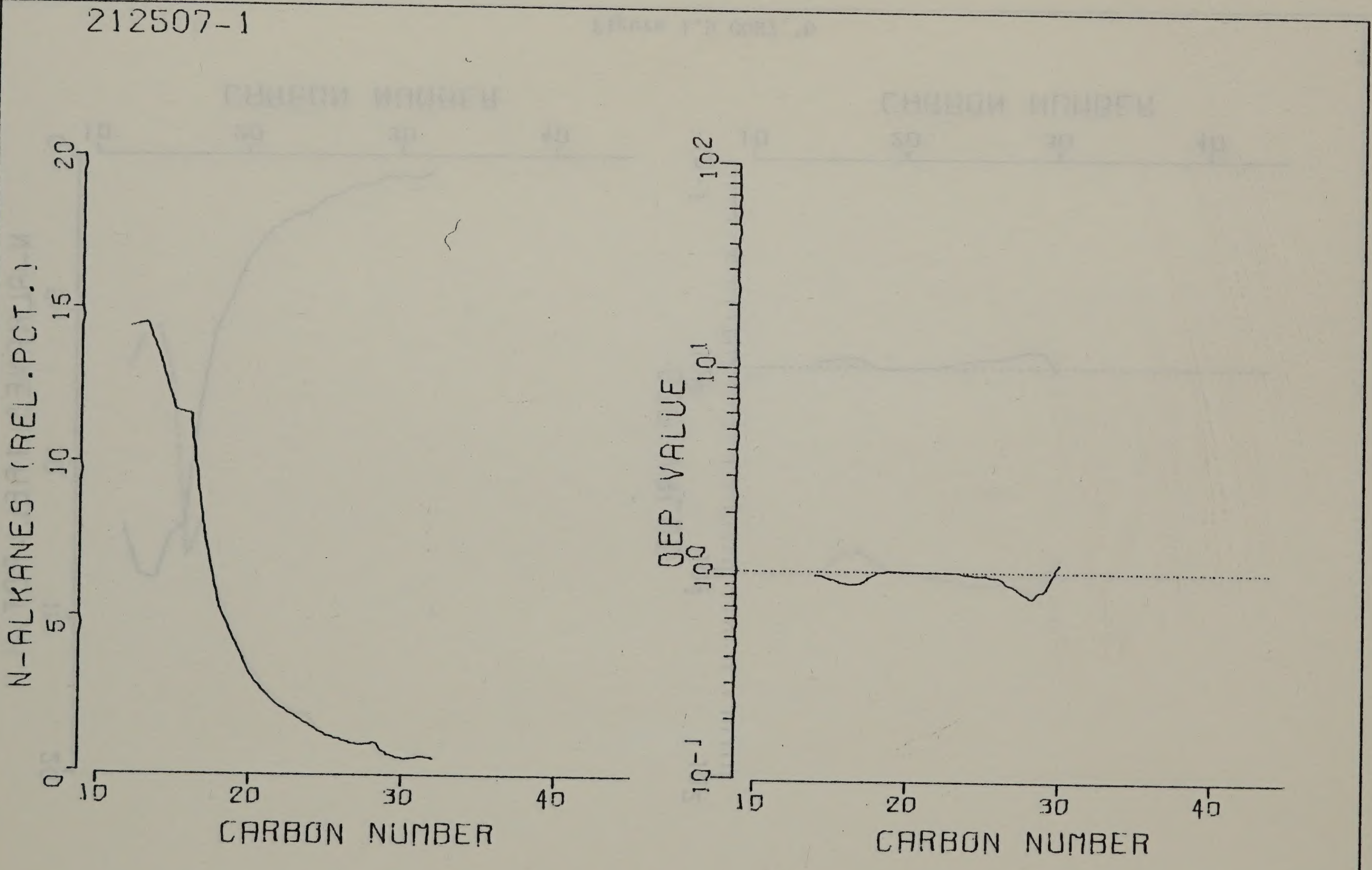

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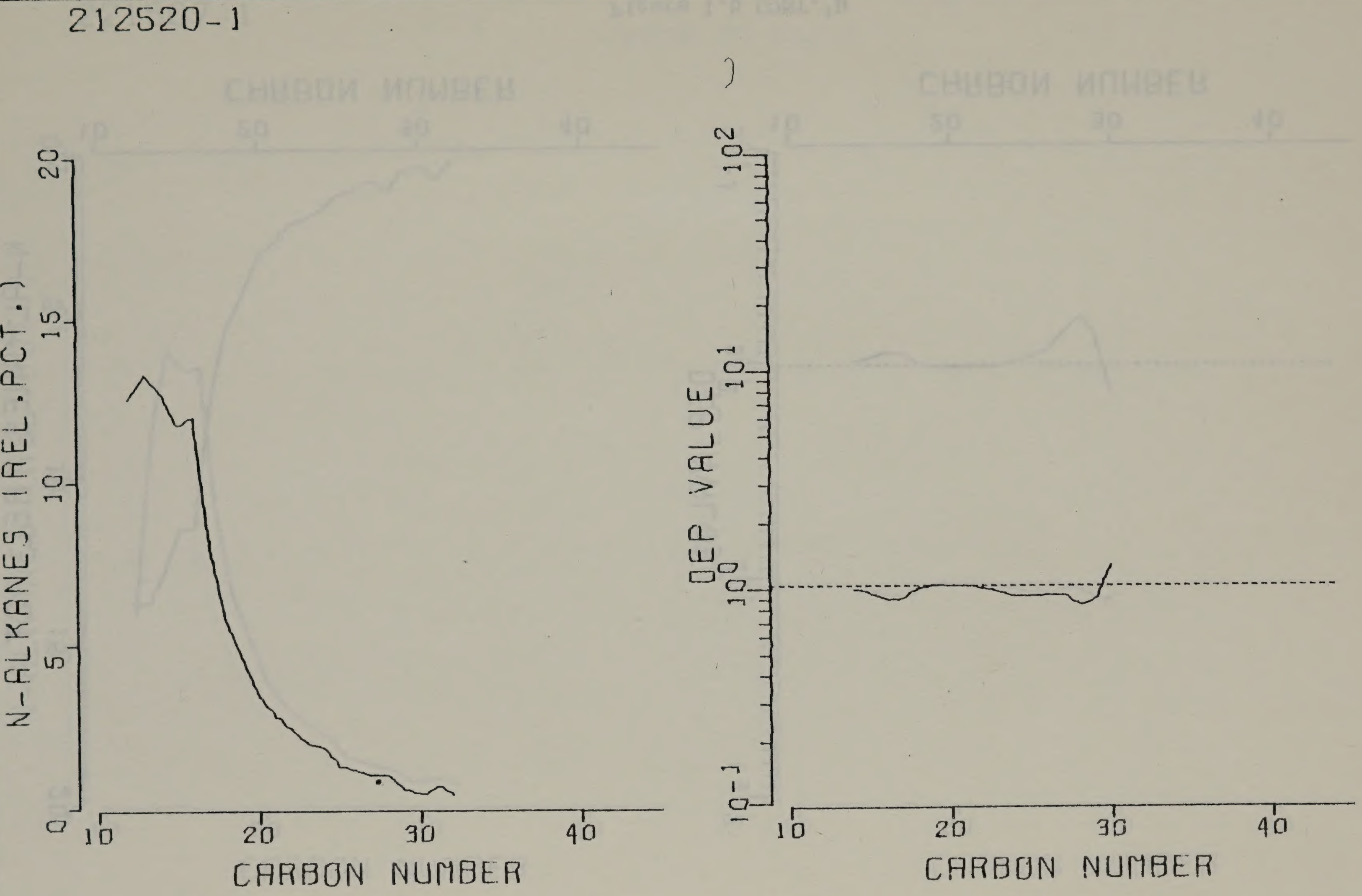

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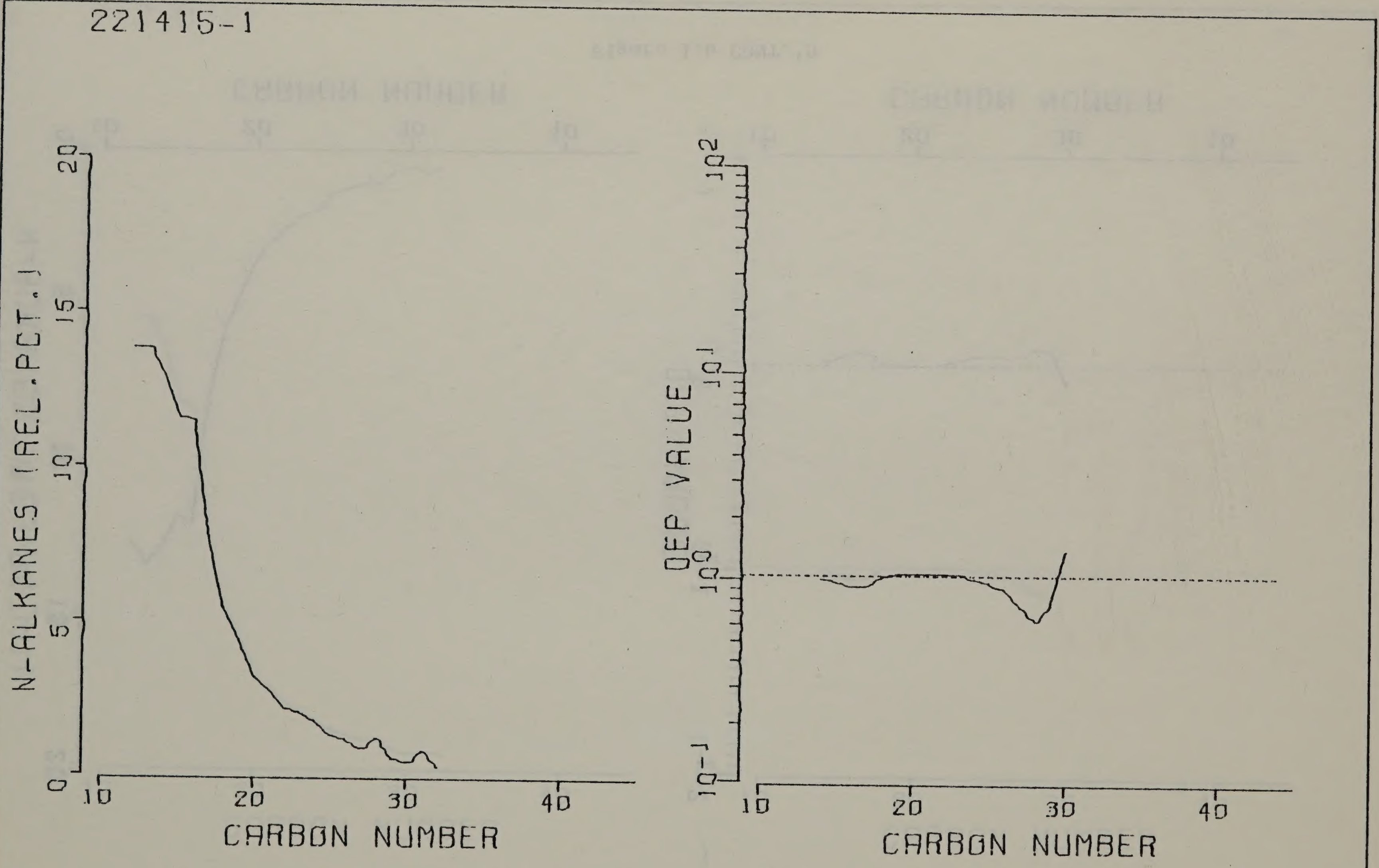

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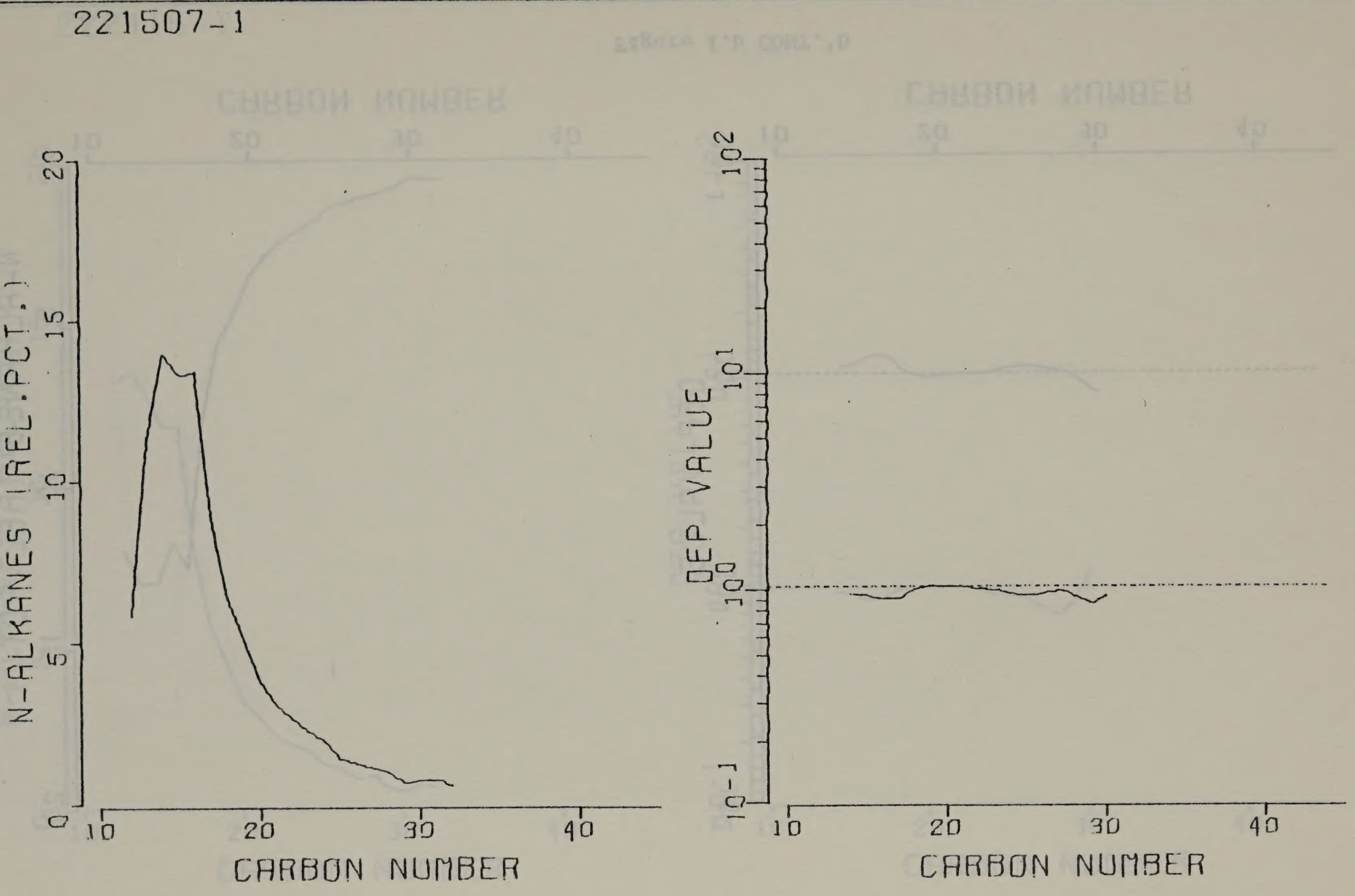

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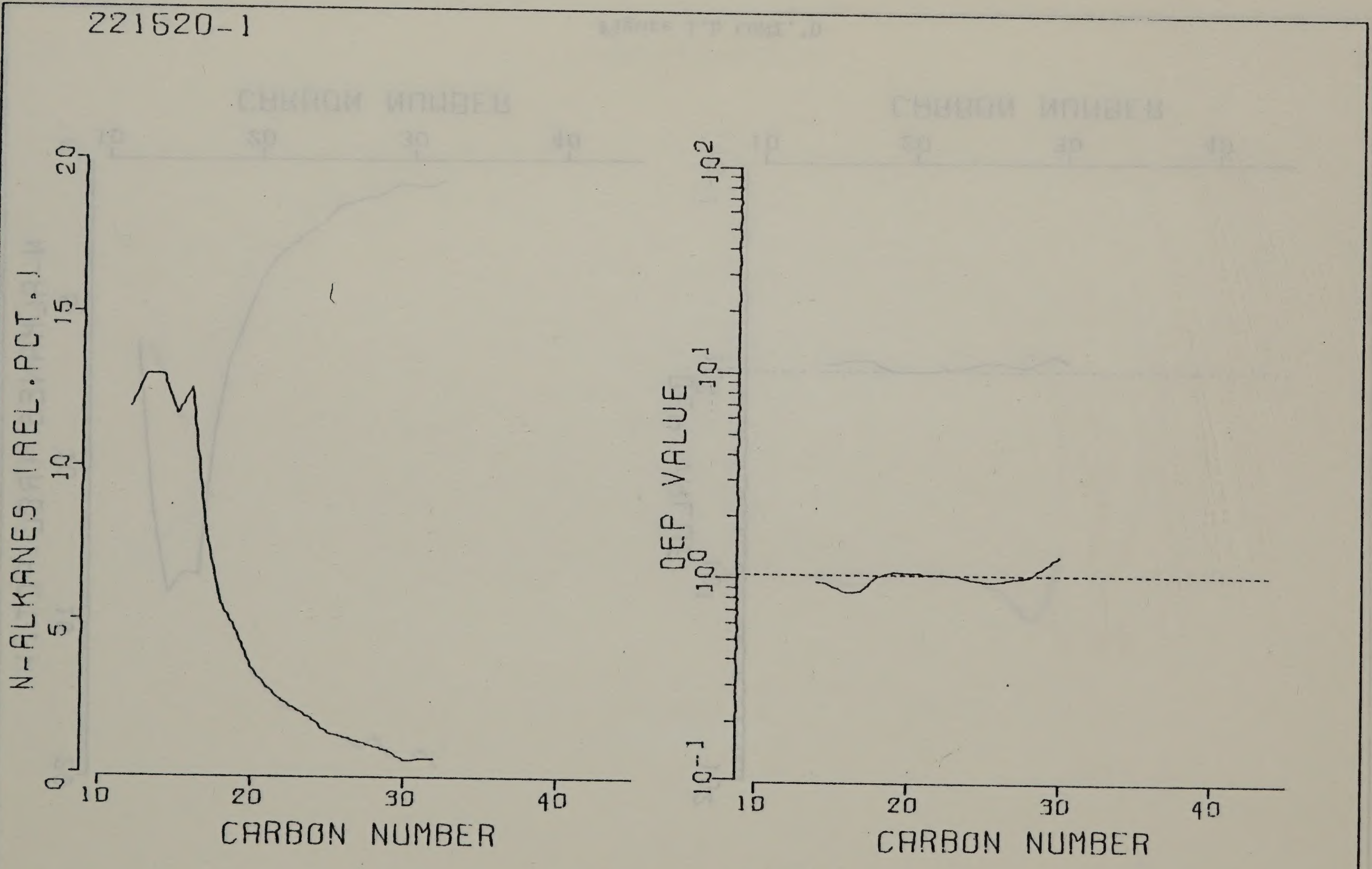

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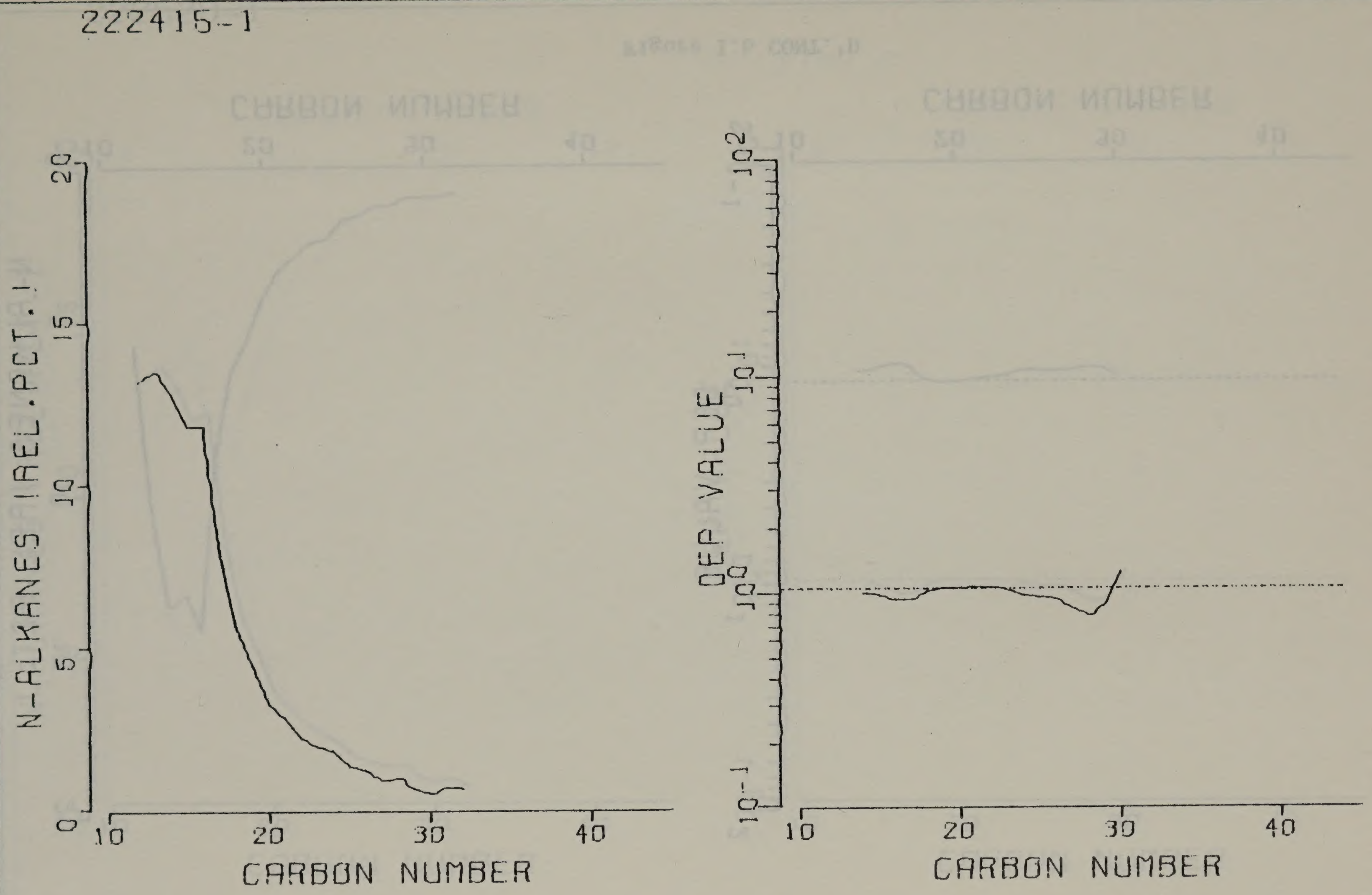

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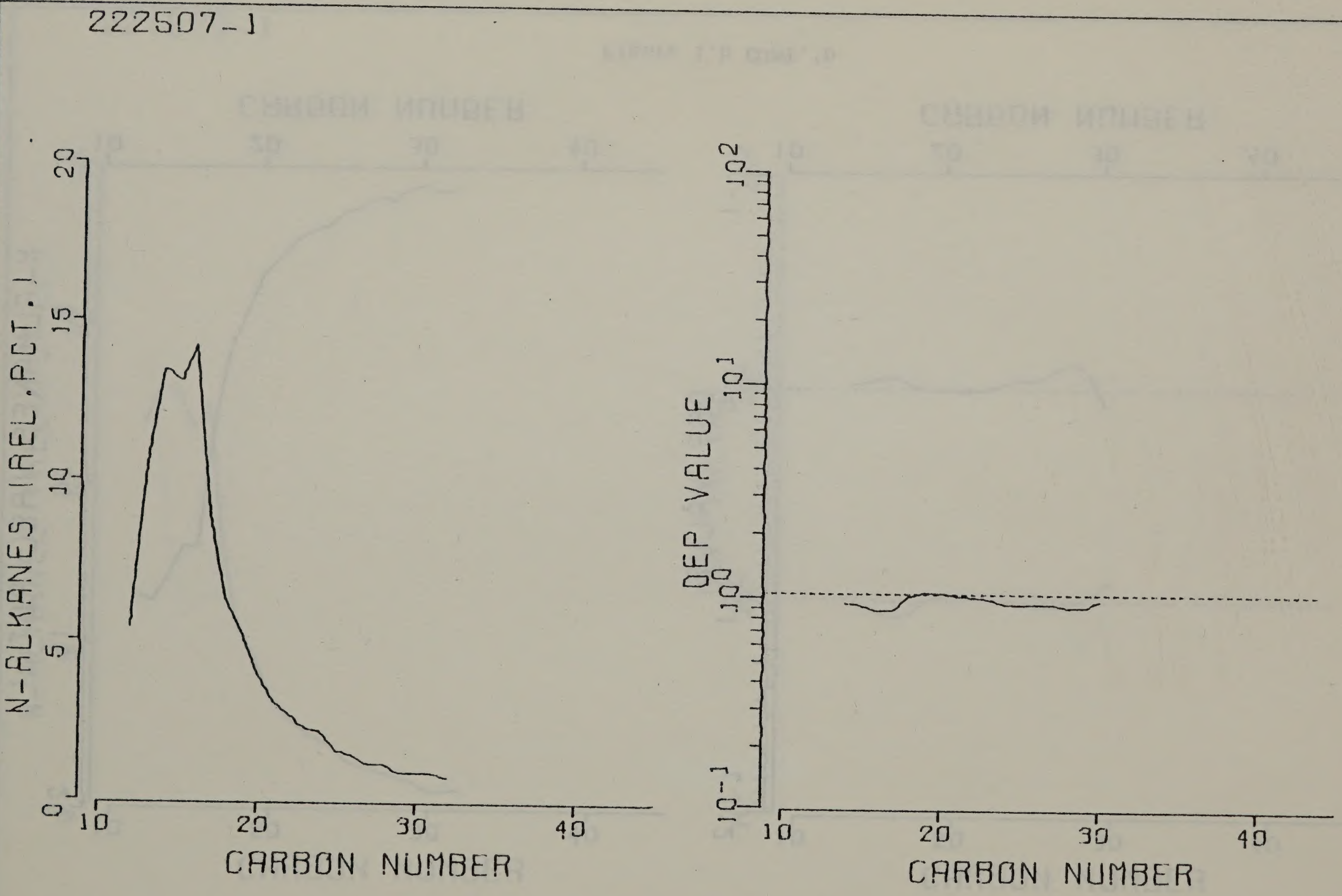

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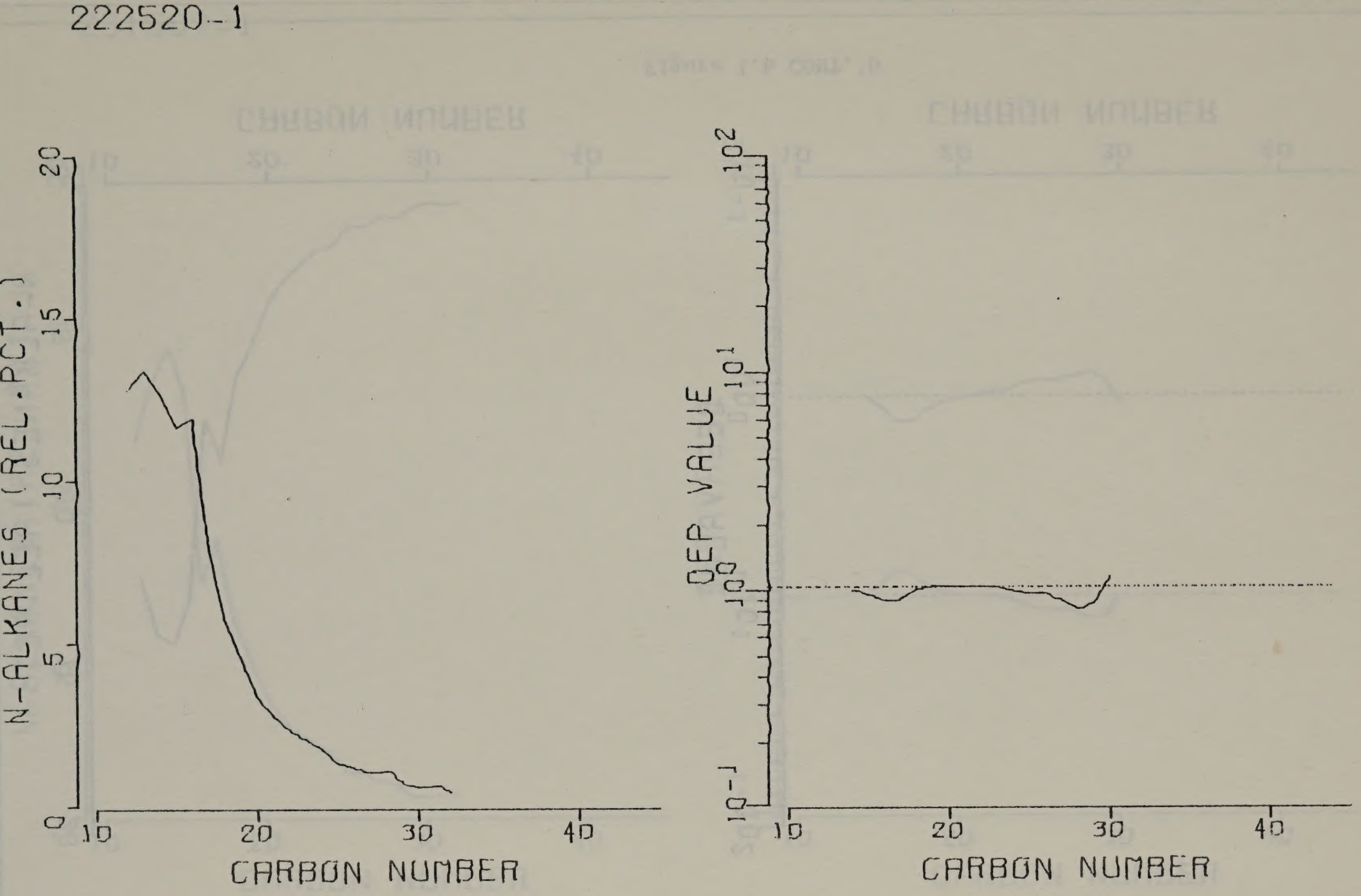

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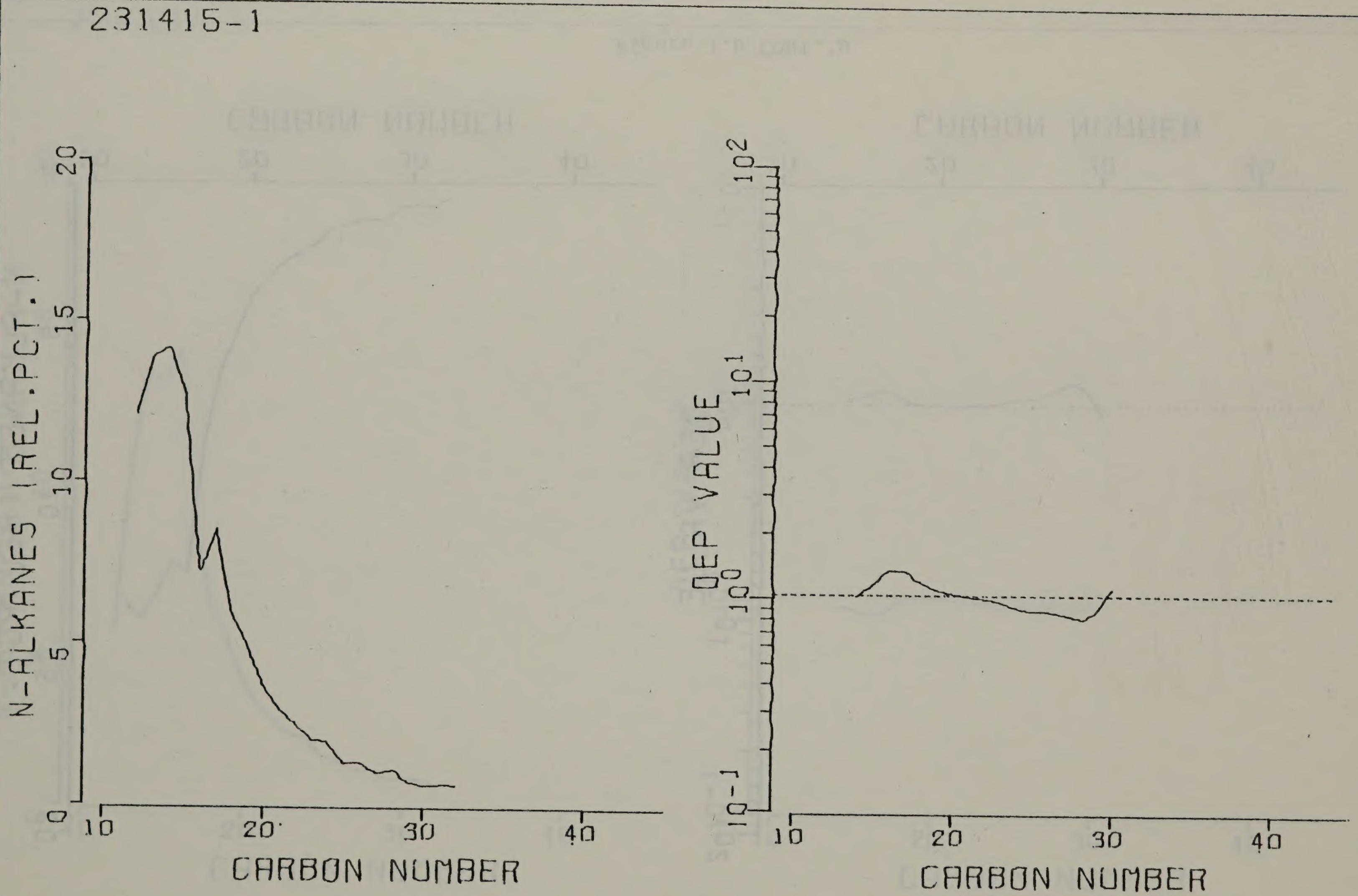

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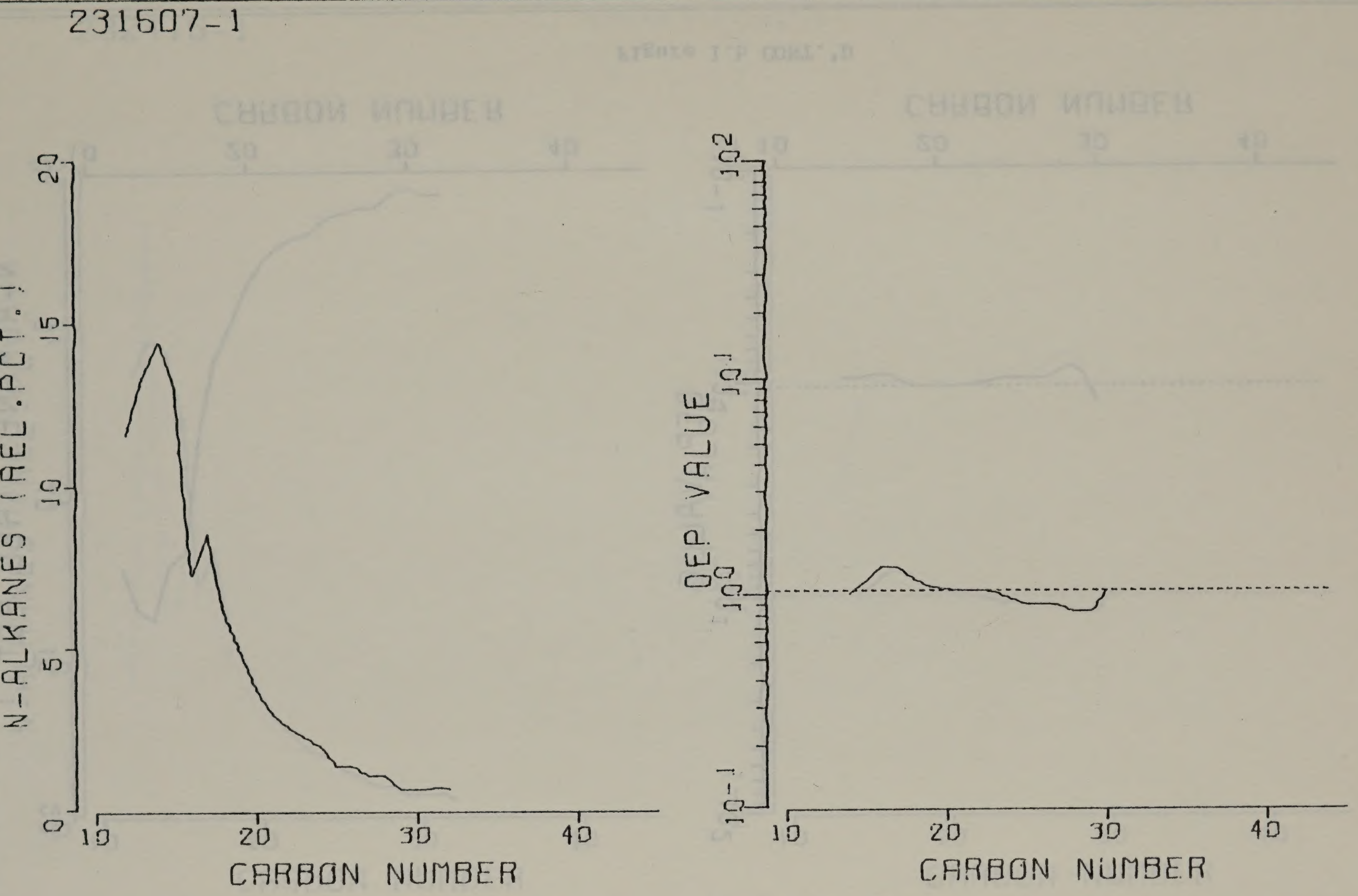

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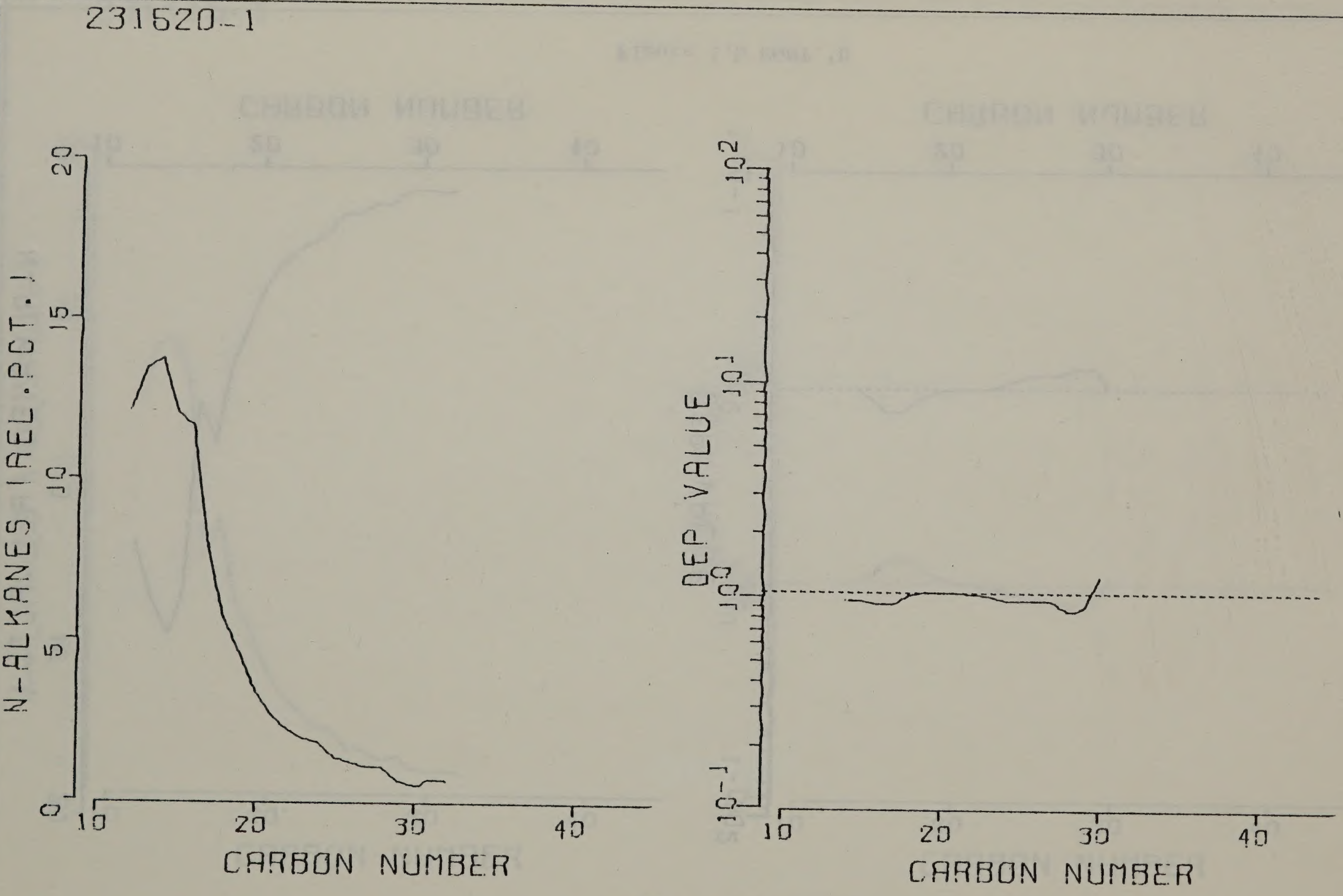

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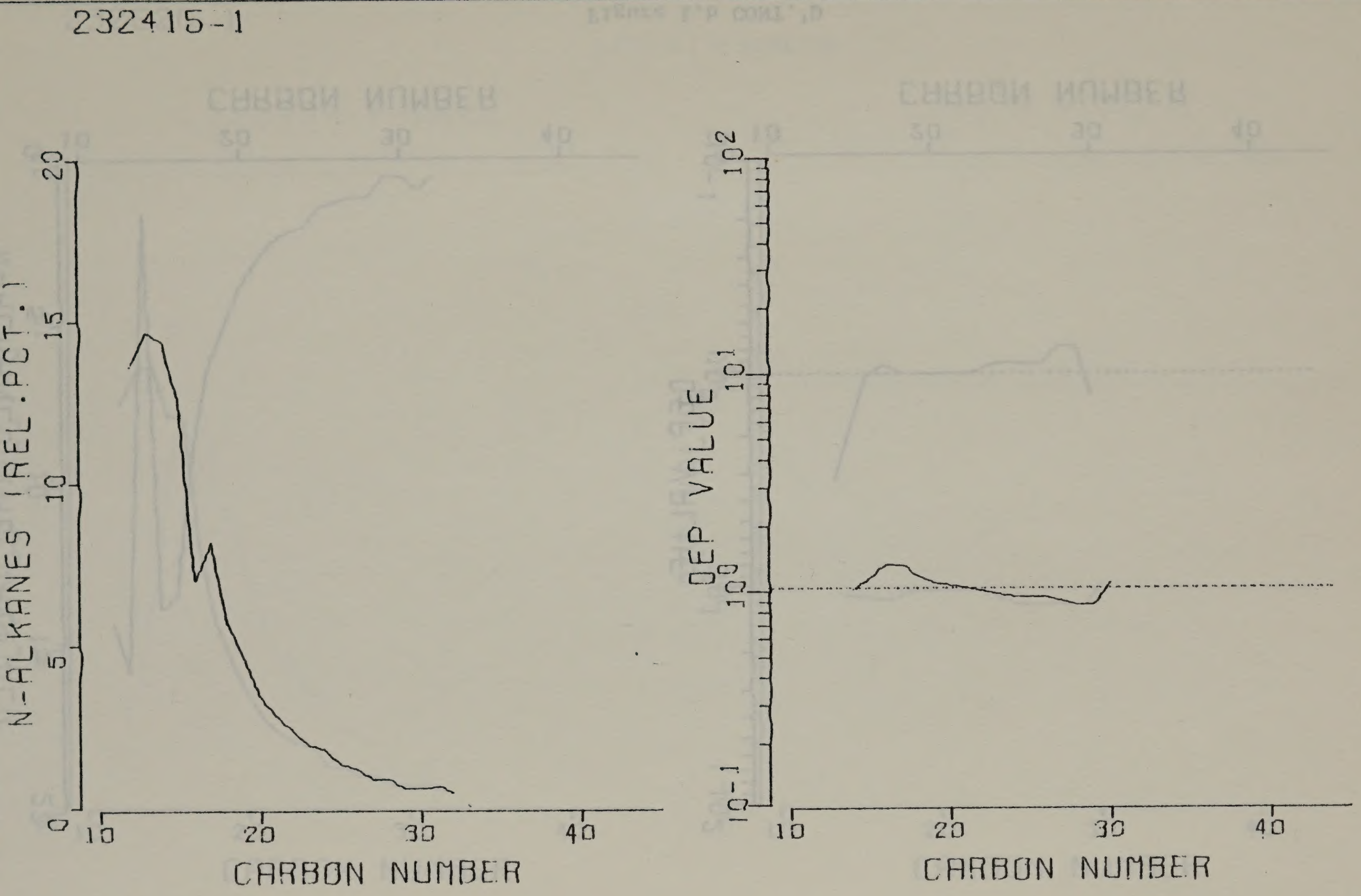

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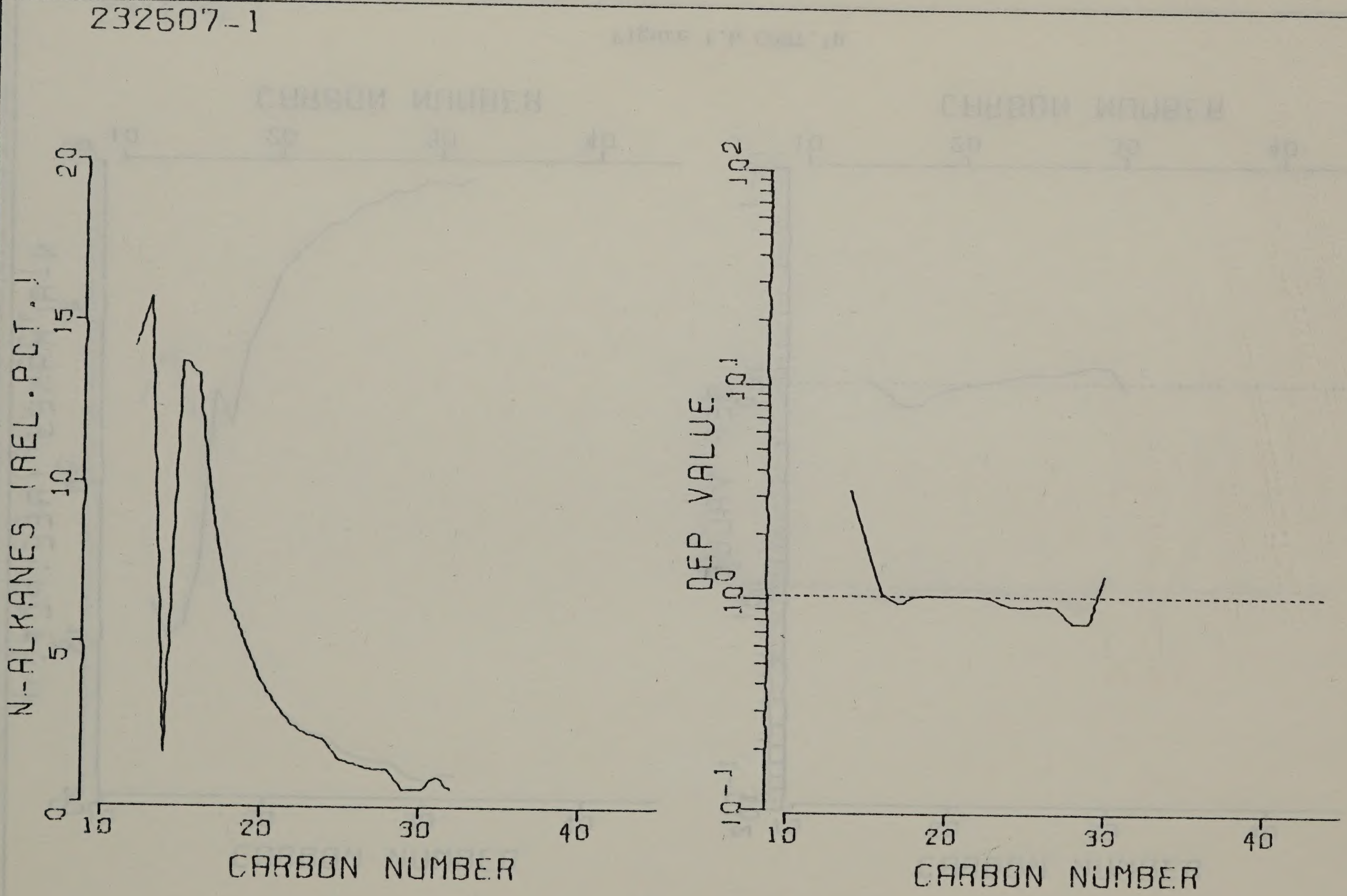

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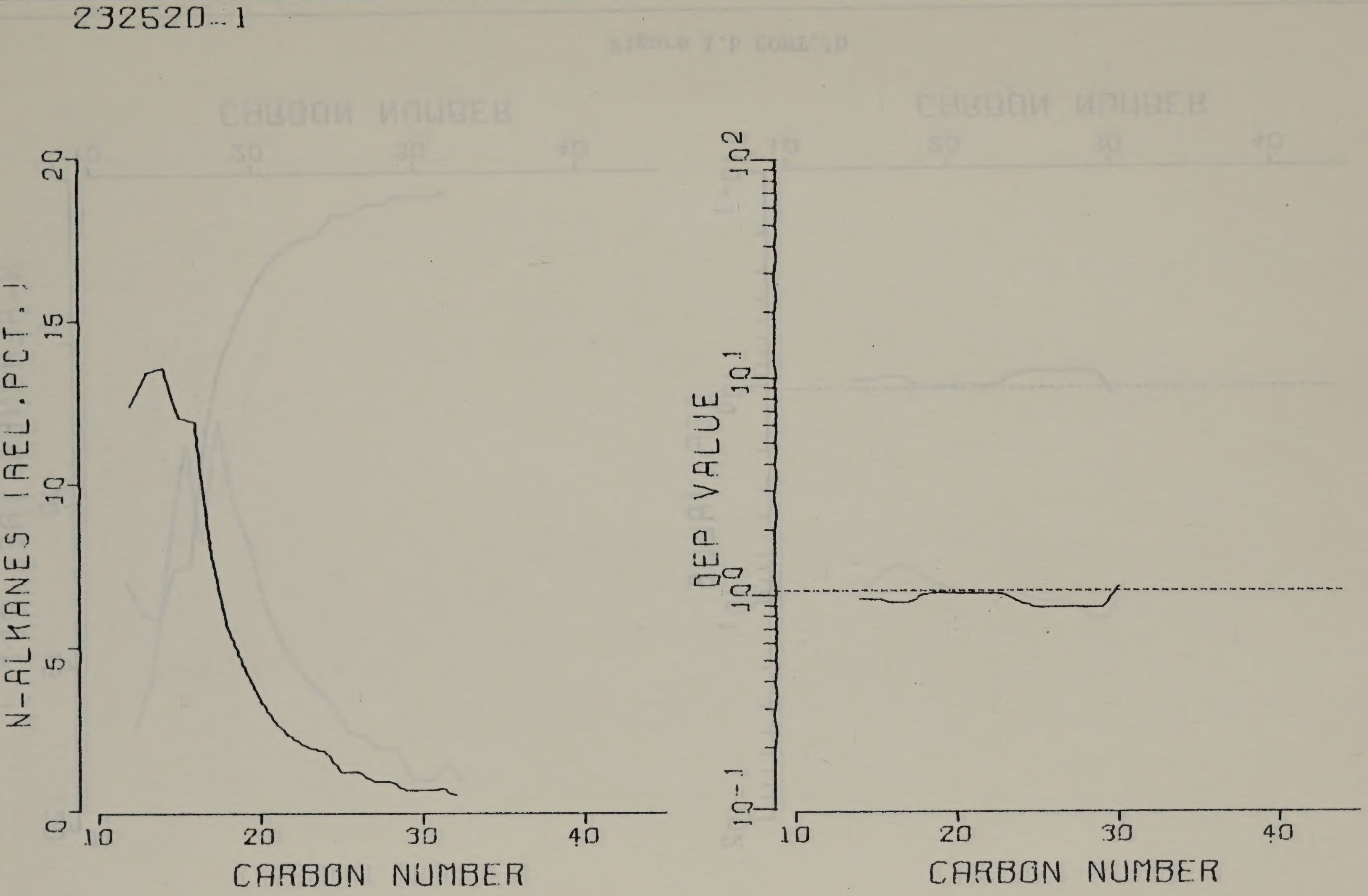

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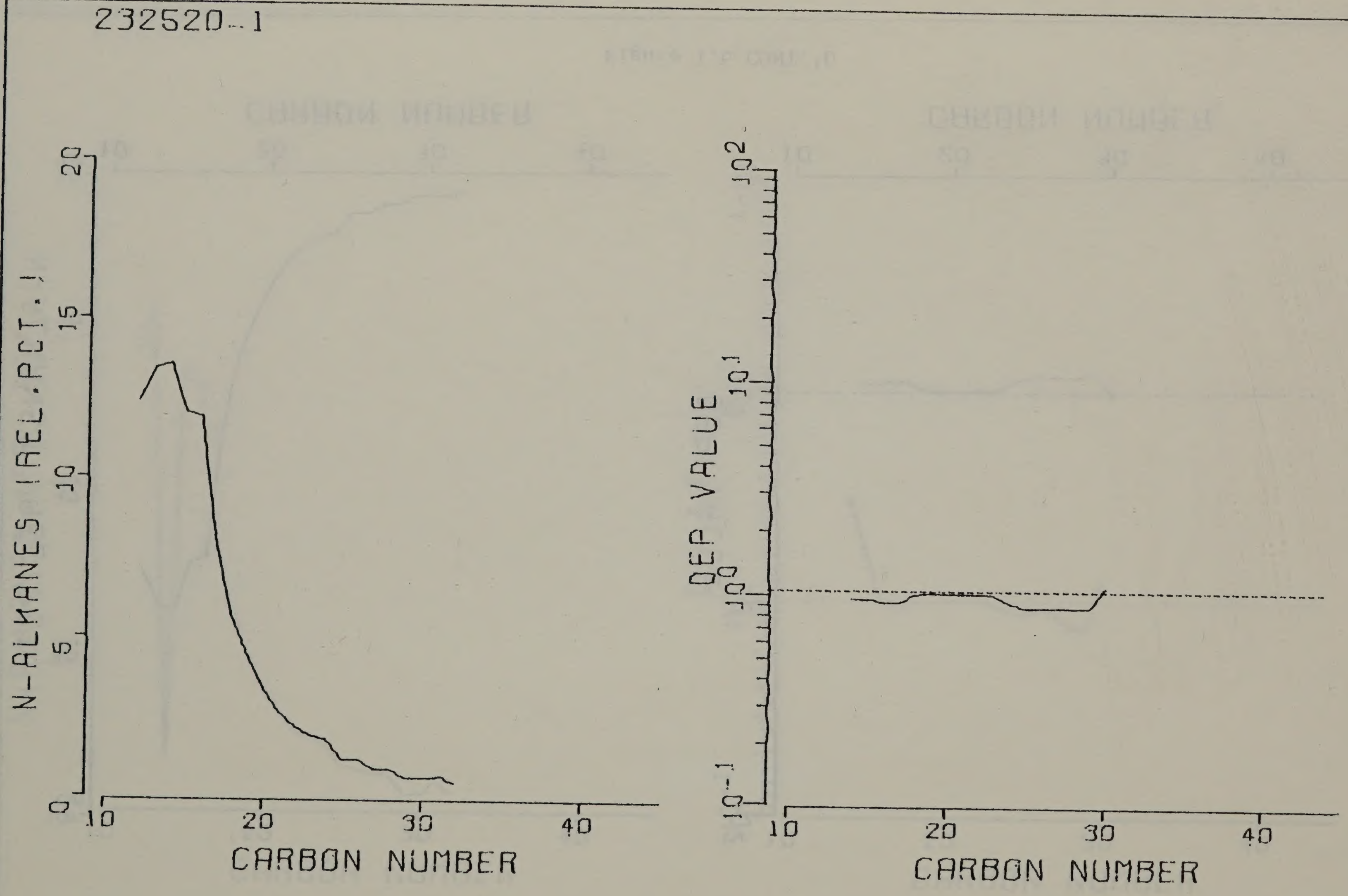

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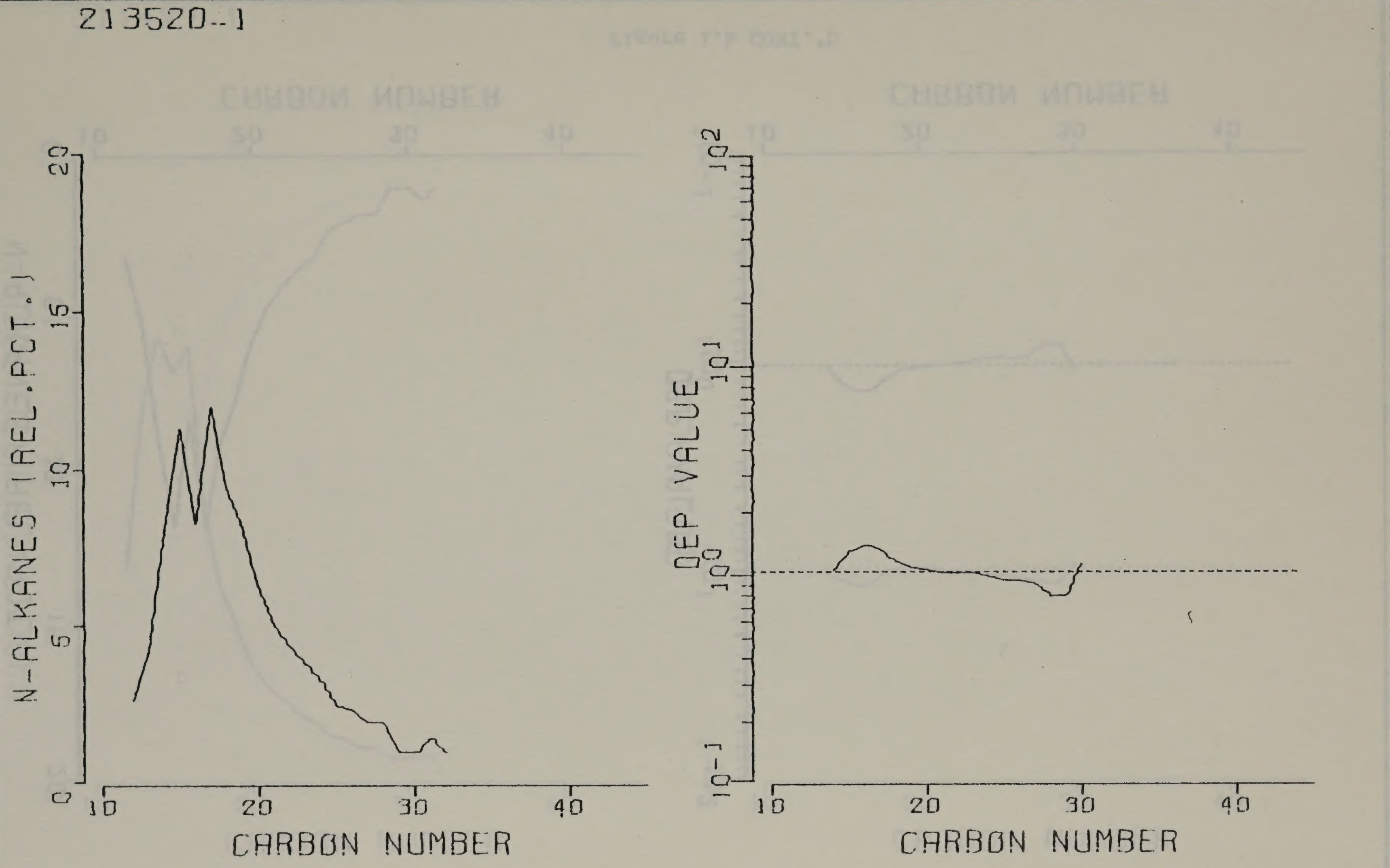

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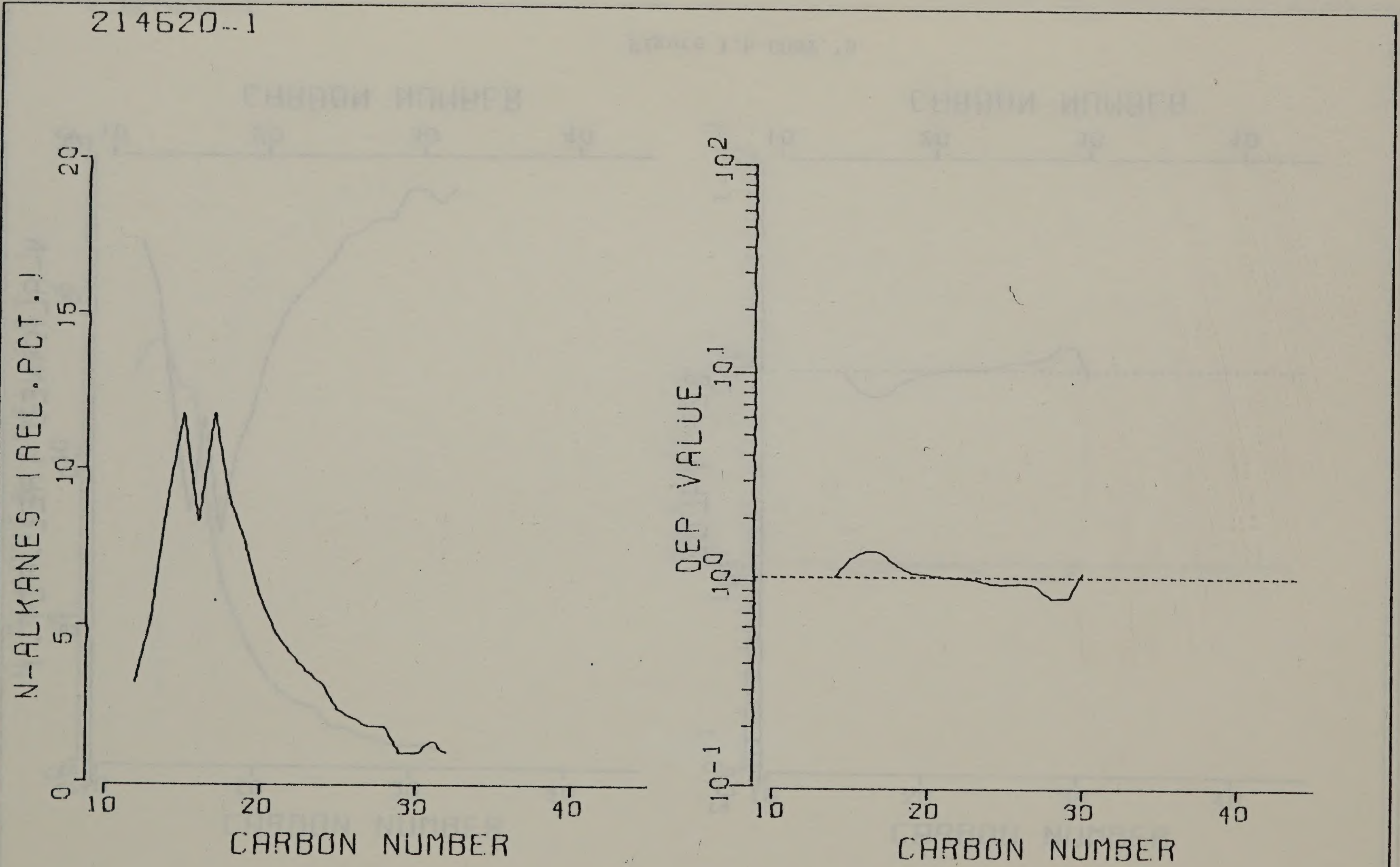

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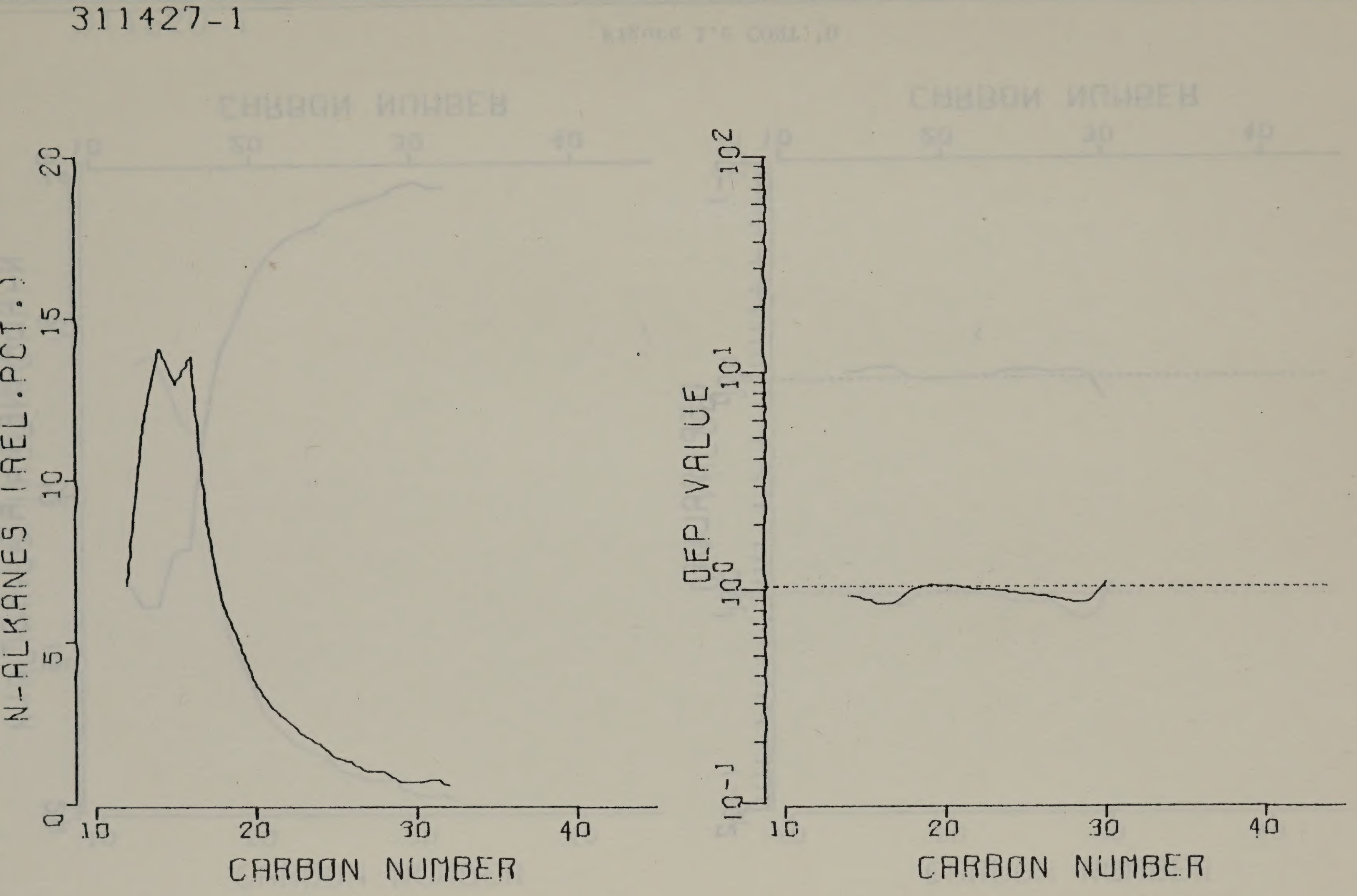
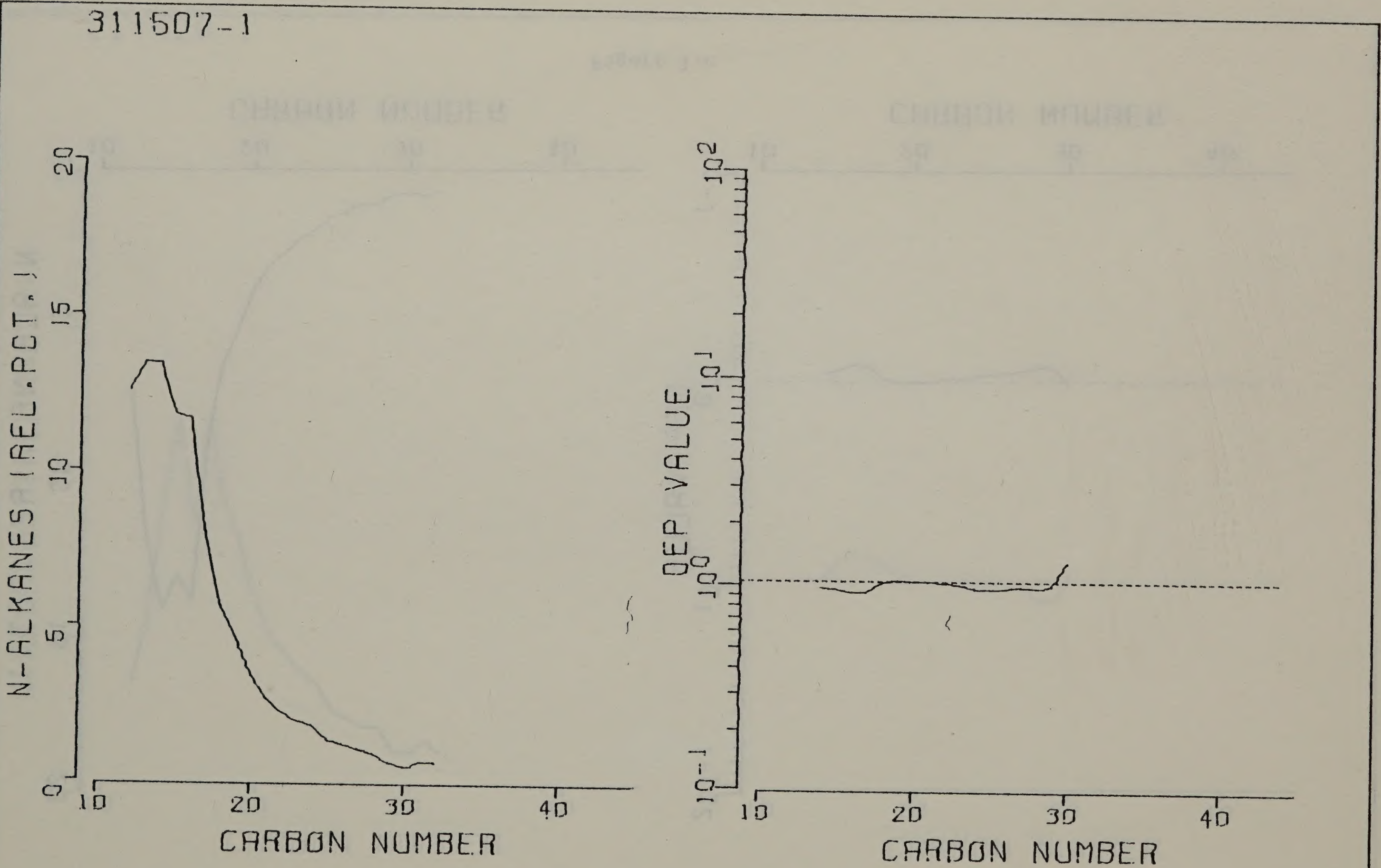

311427-1
N-ALKANES (REL.PCT.)
0
5
10
15
20
10
20
30
40
CARBON NUMBER
DEP VALUE
10^{-1}
10^{0}
10^{1}
10^{2}
10
20
30
40
CARBON NUMBER

Figure 1.c



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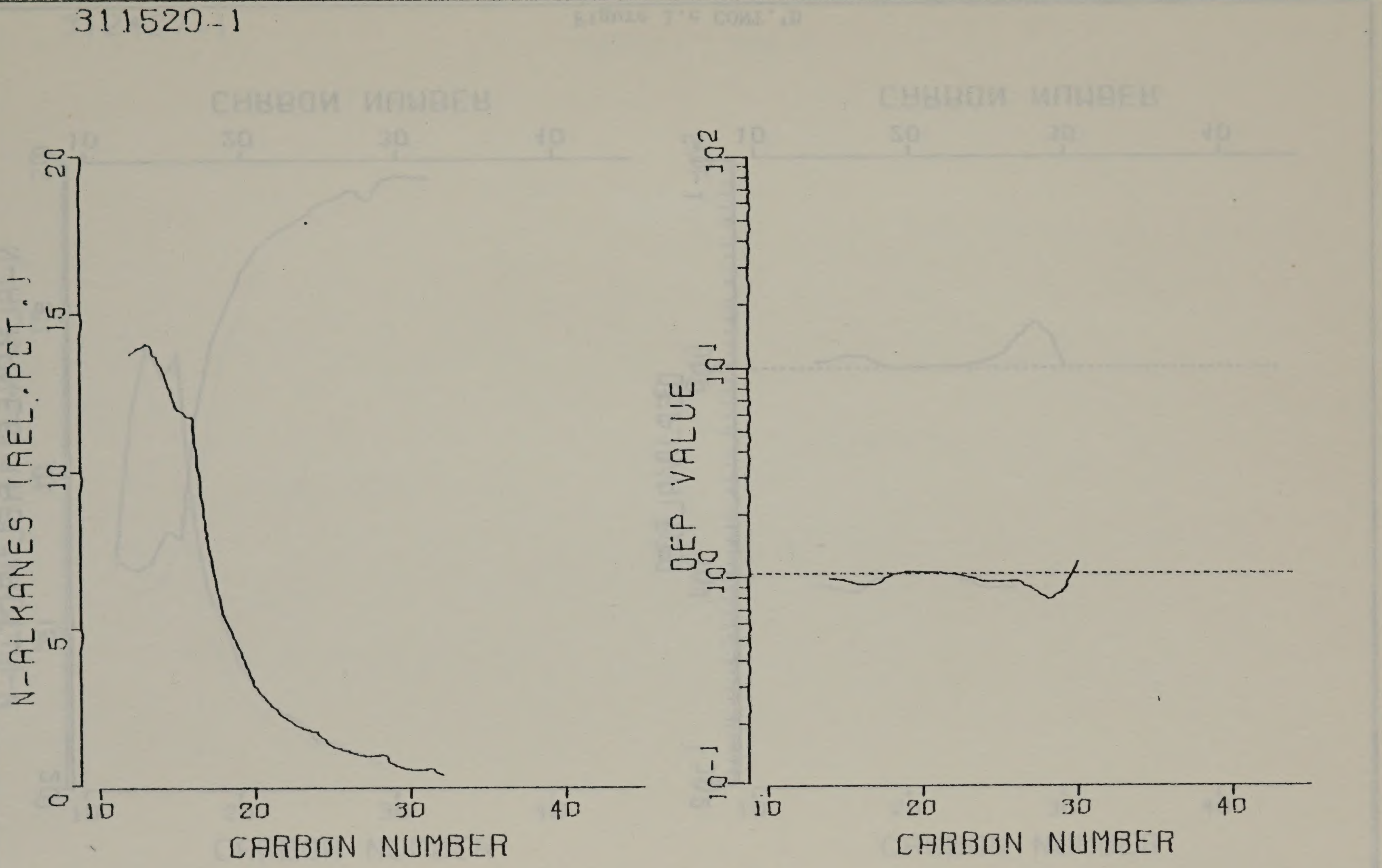

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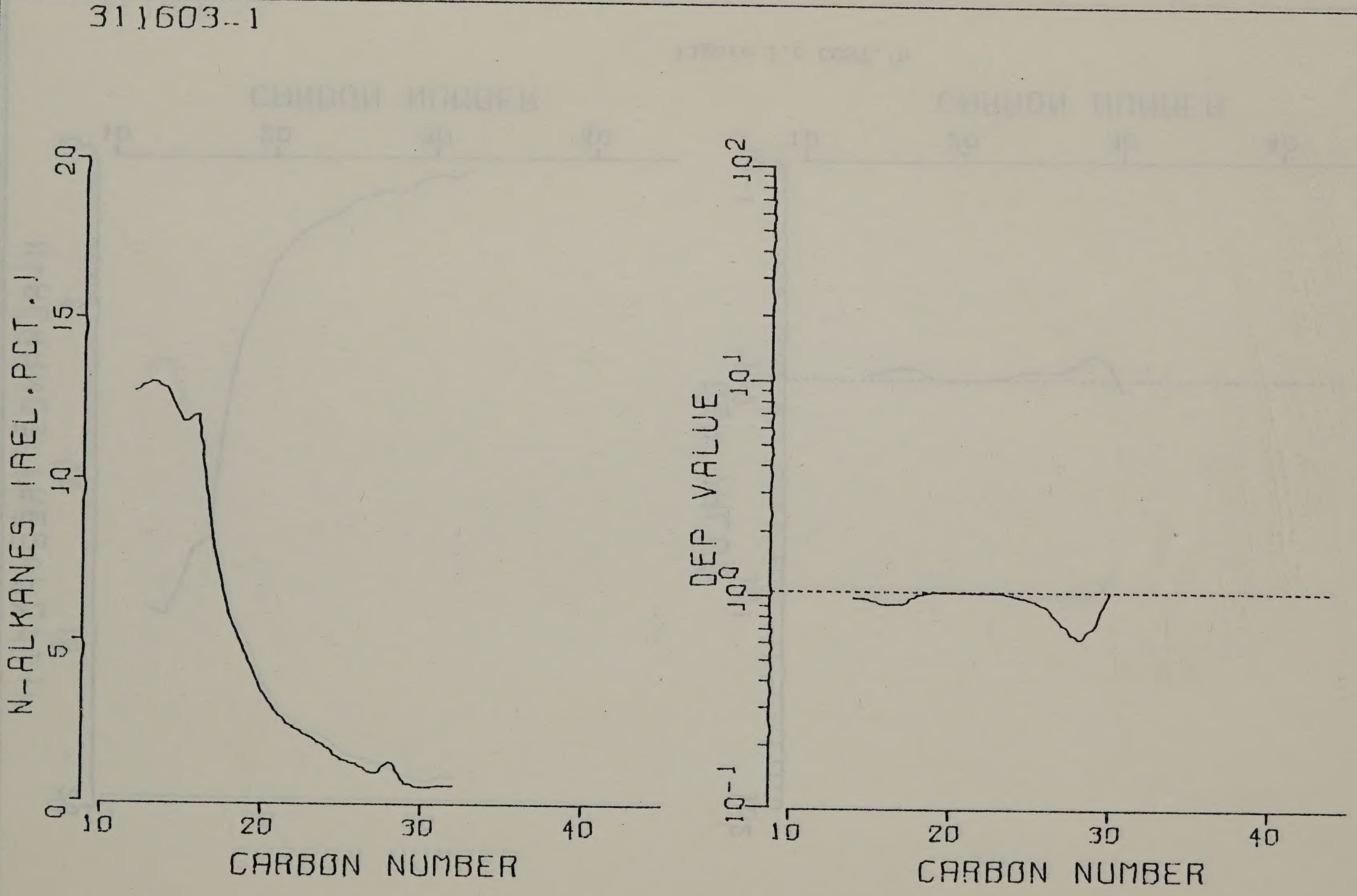

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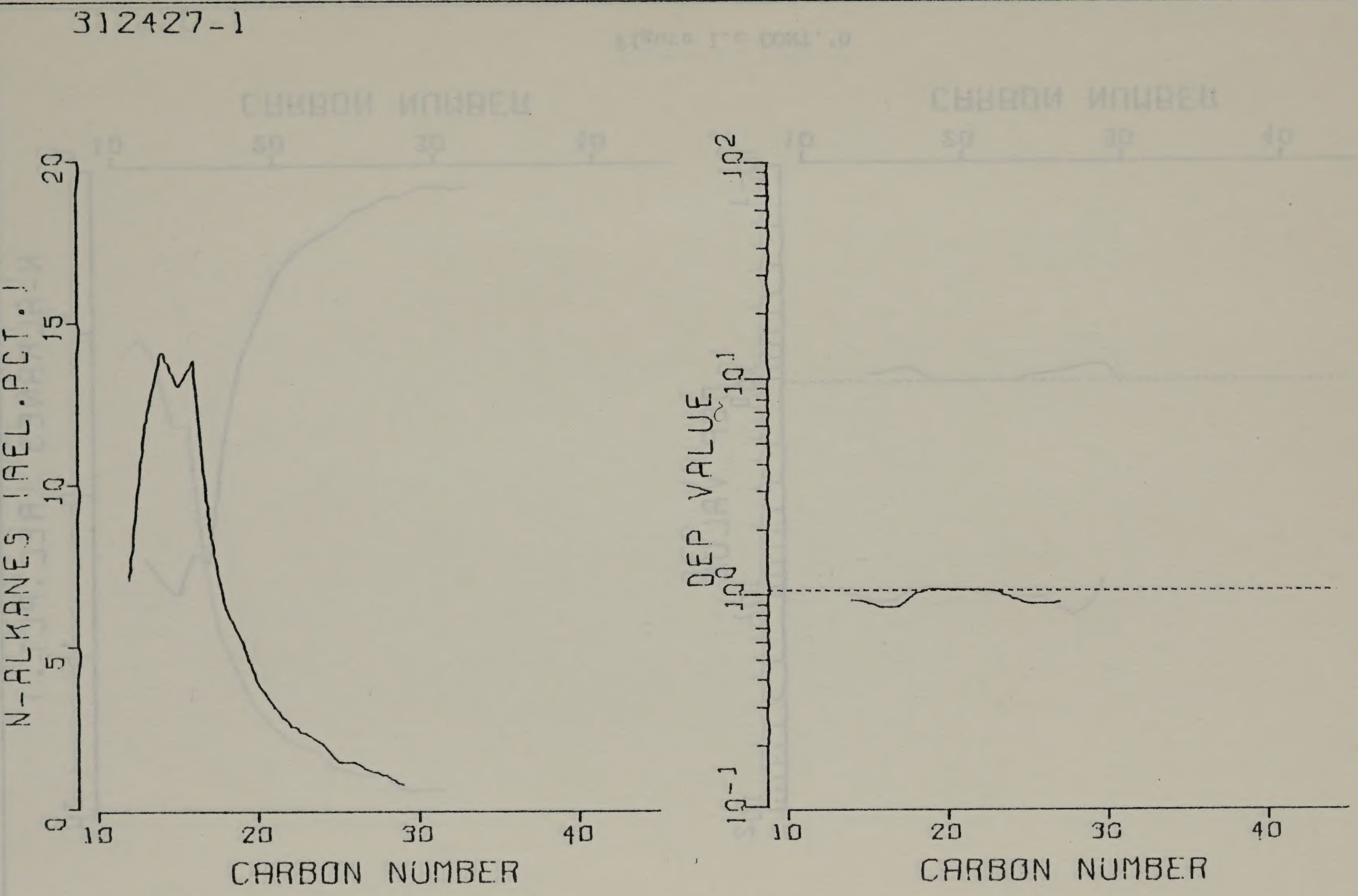

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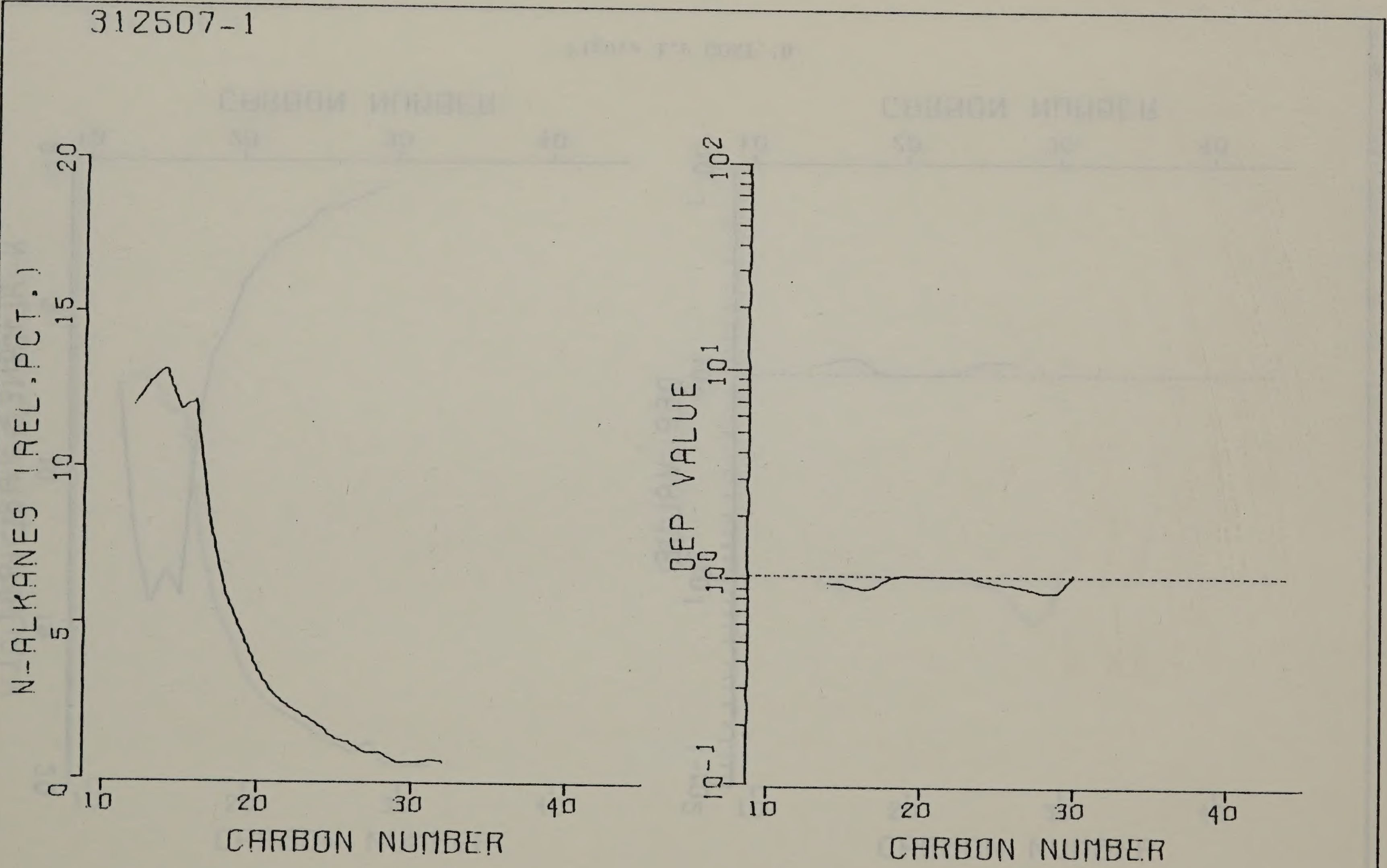

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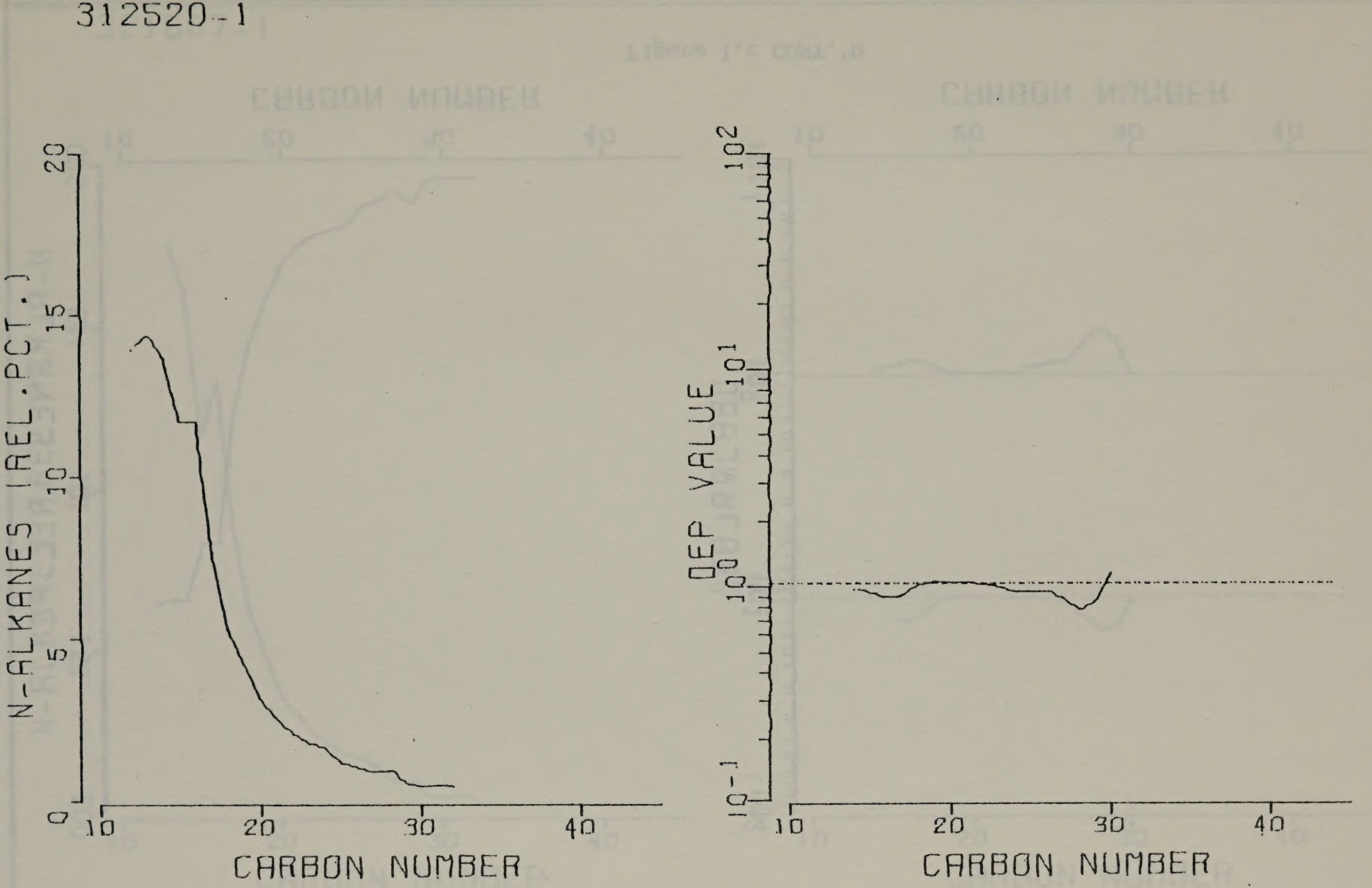

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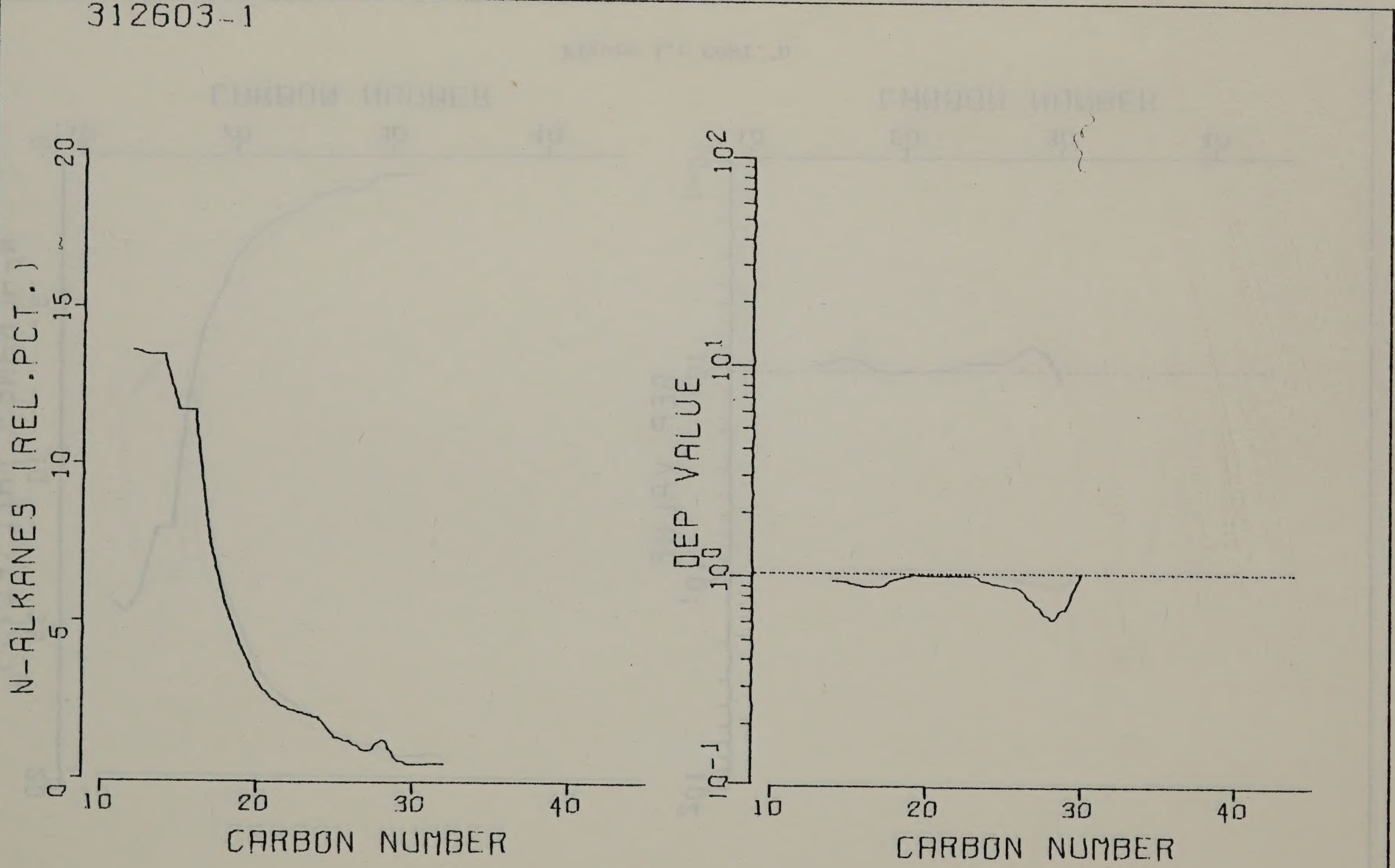

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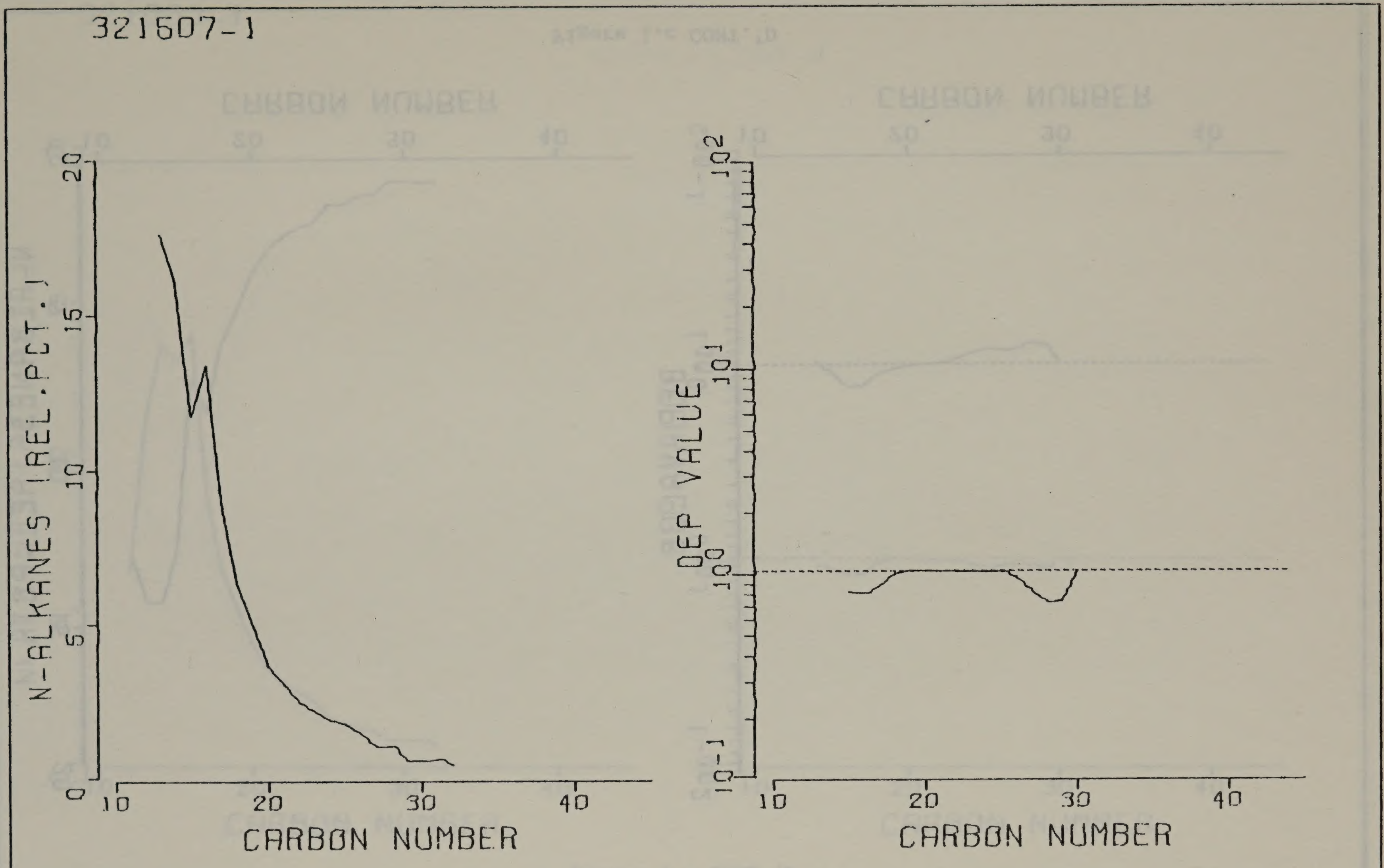

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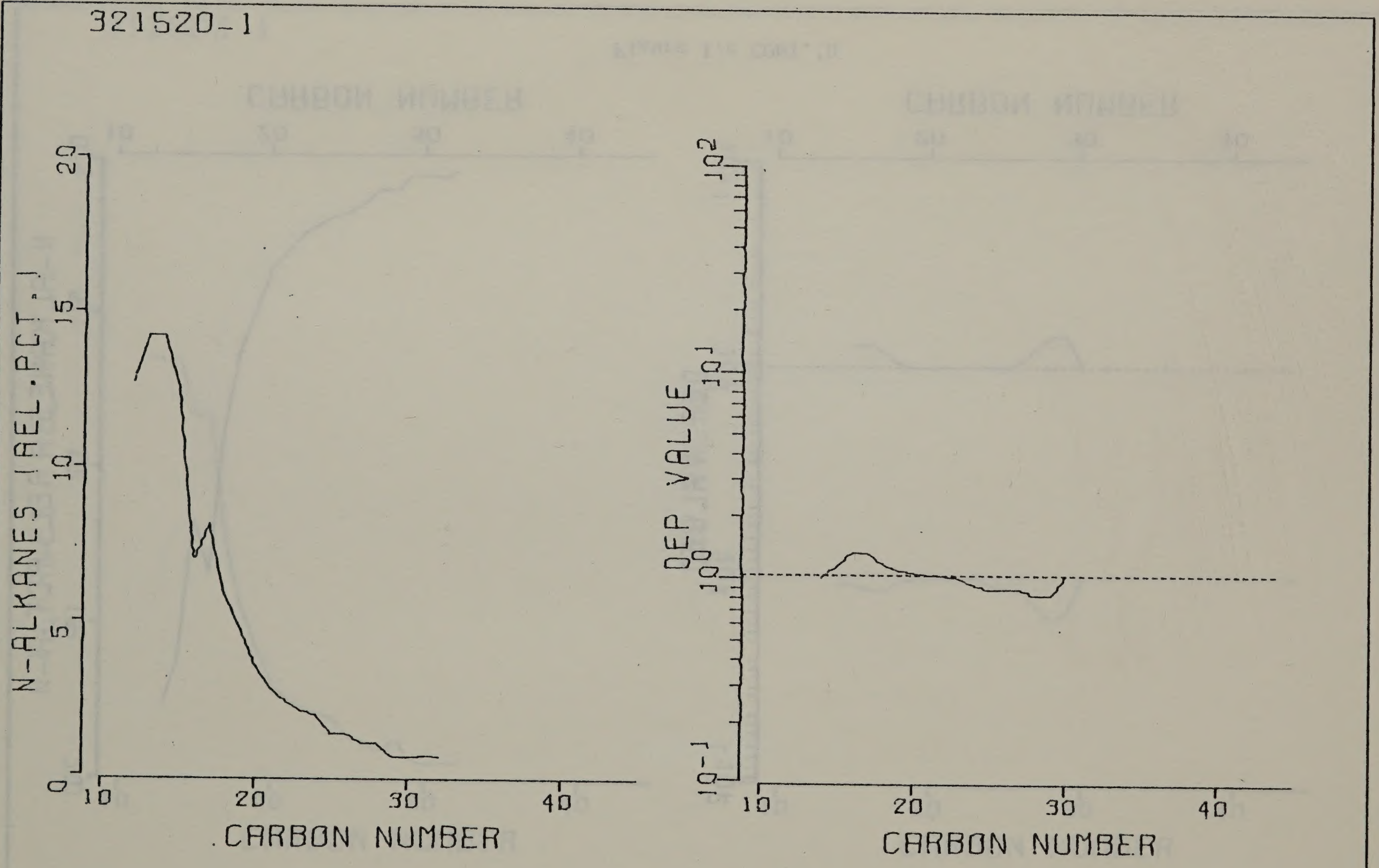

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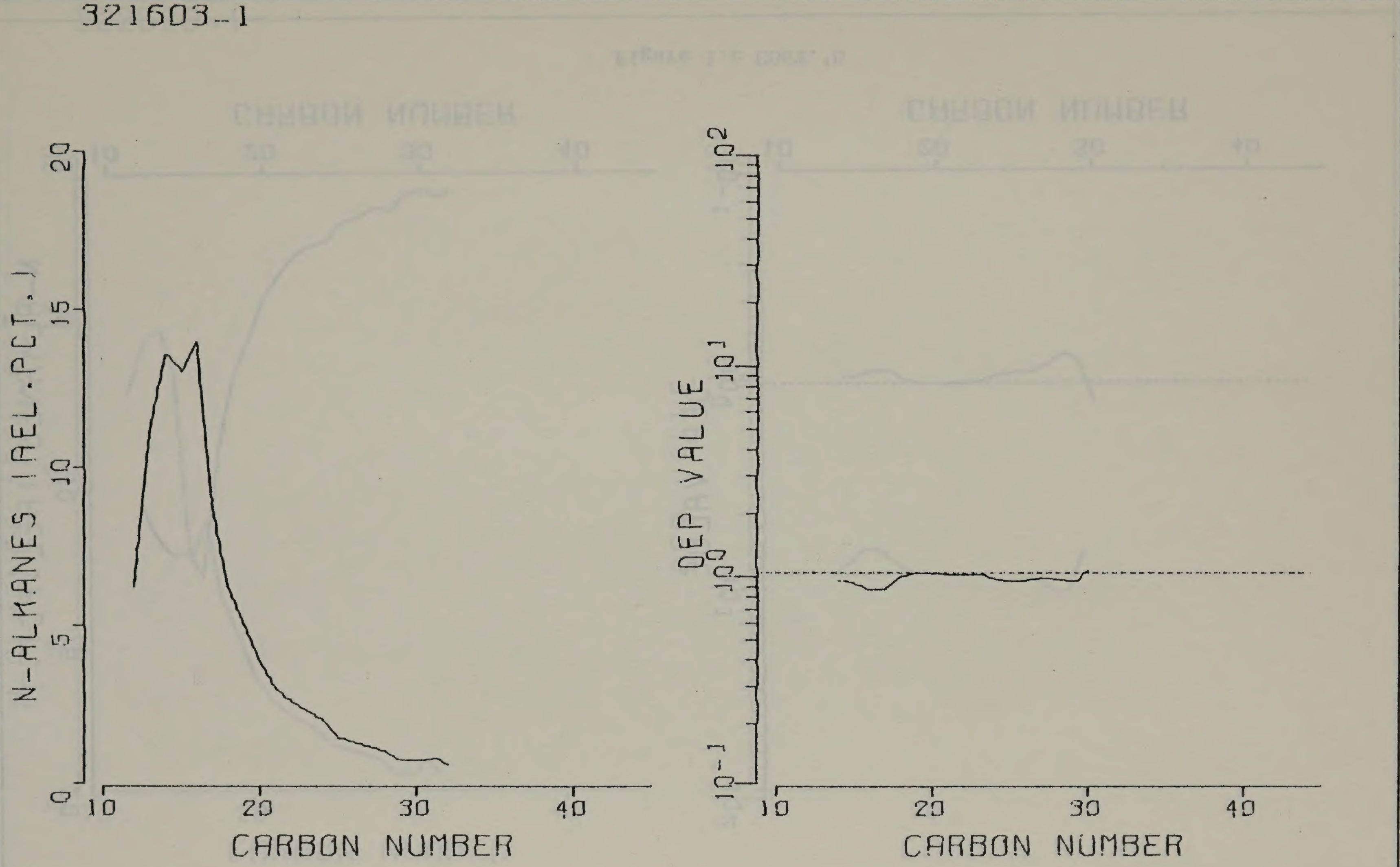

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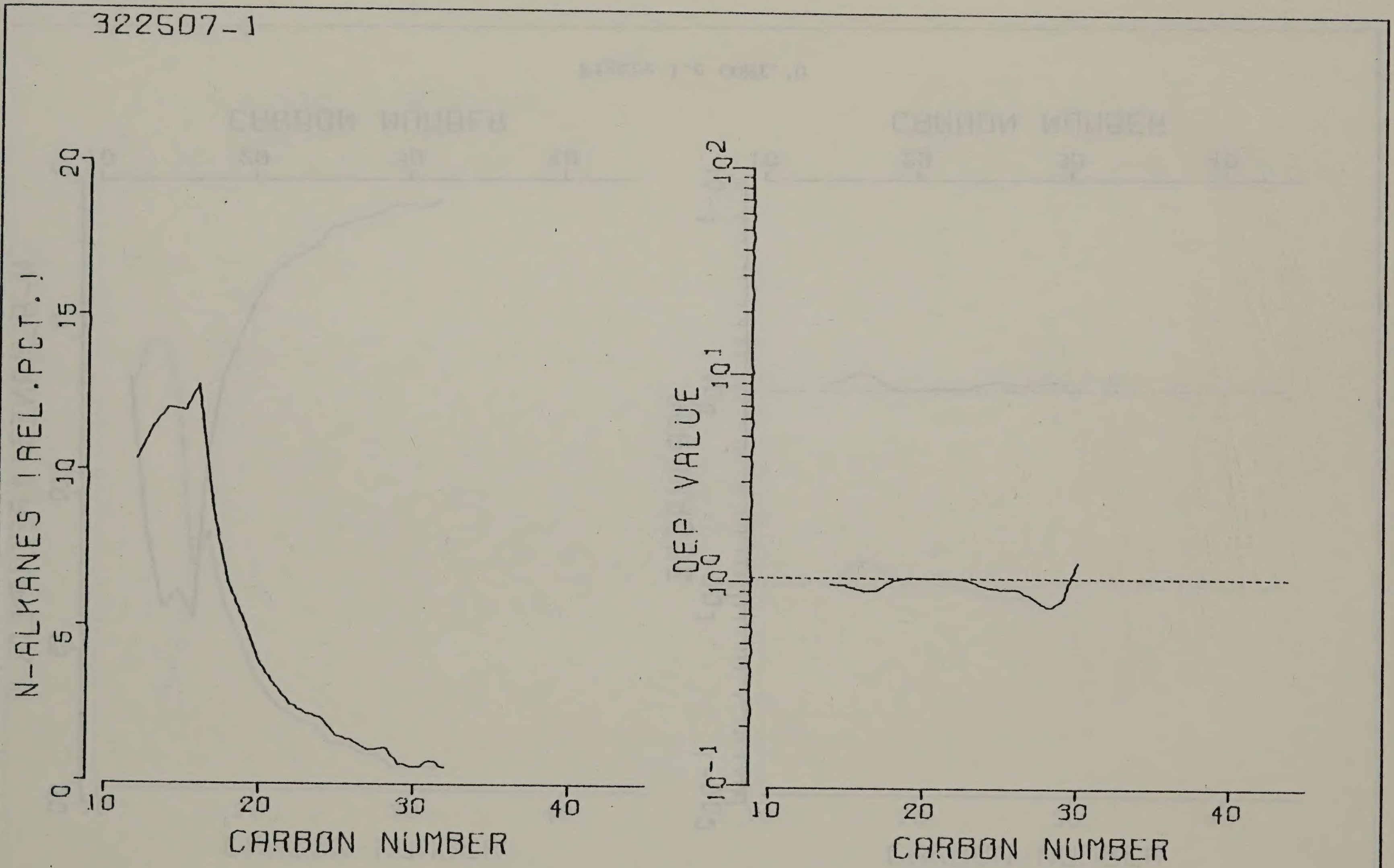

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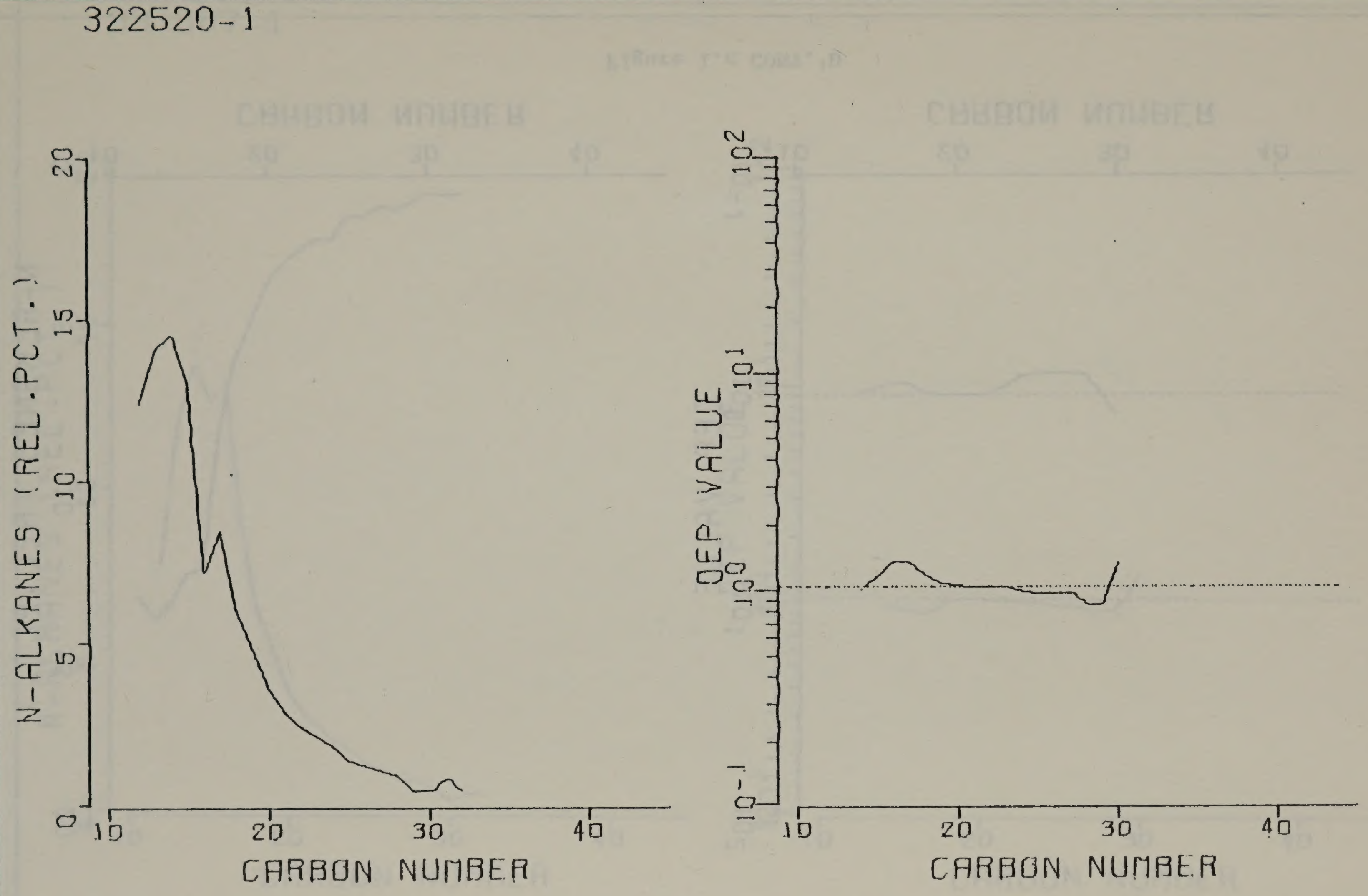

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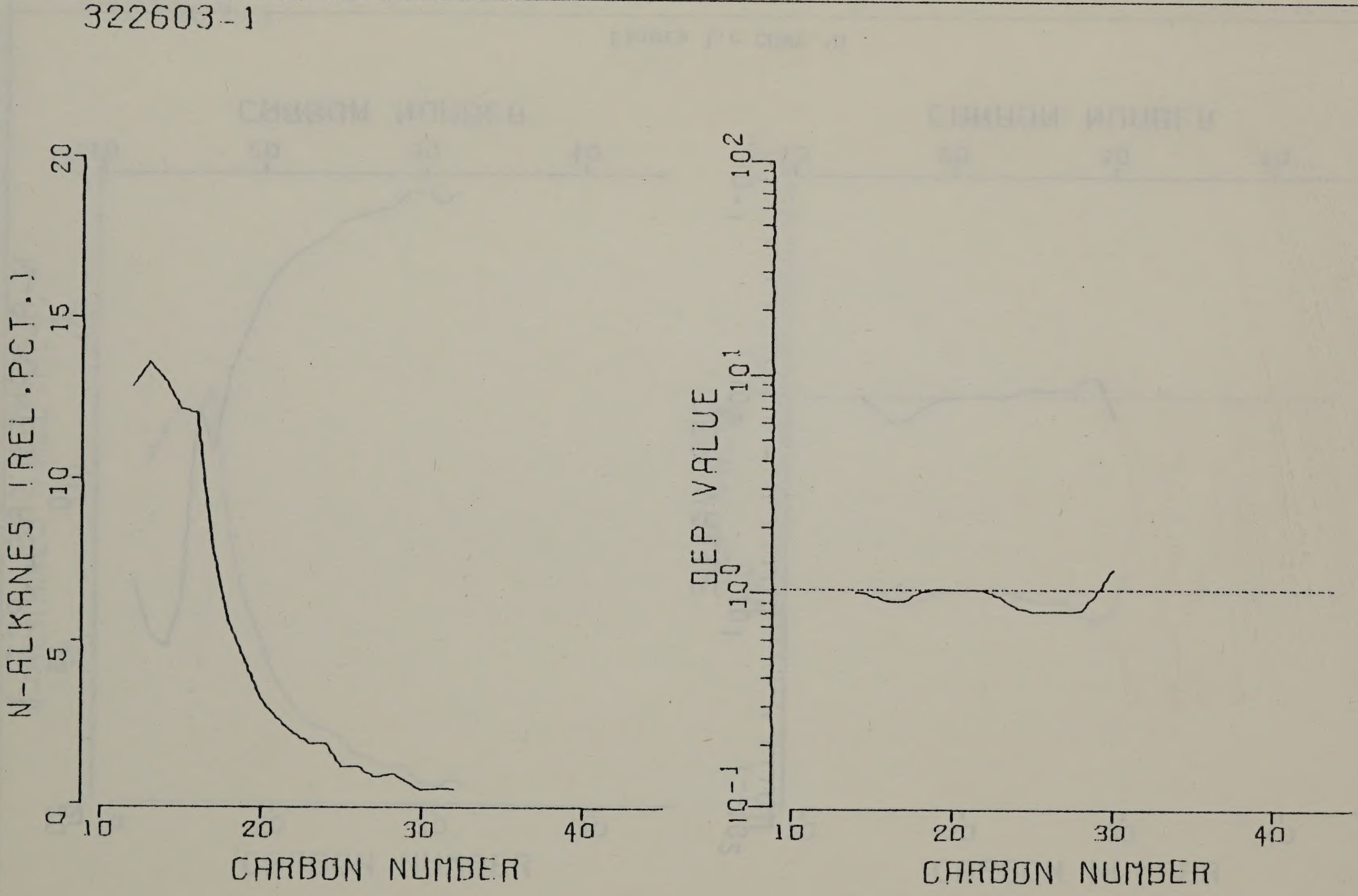

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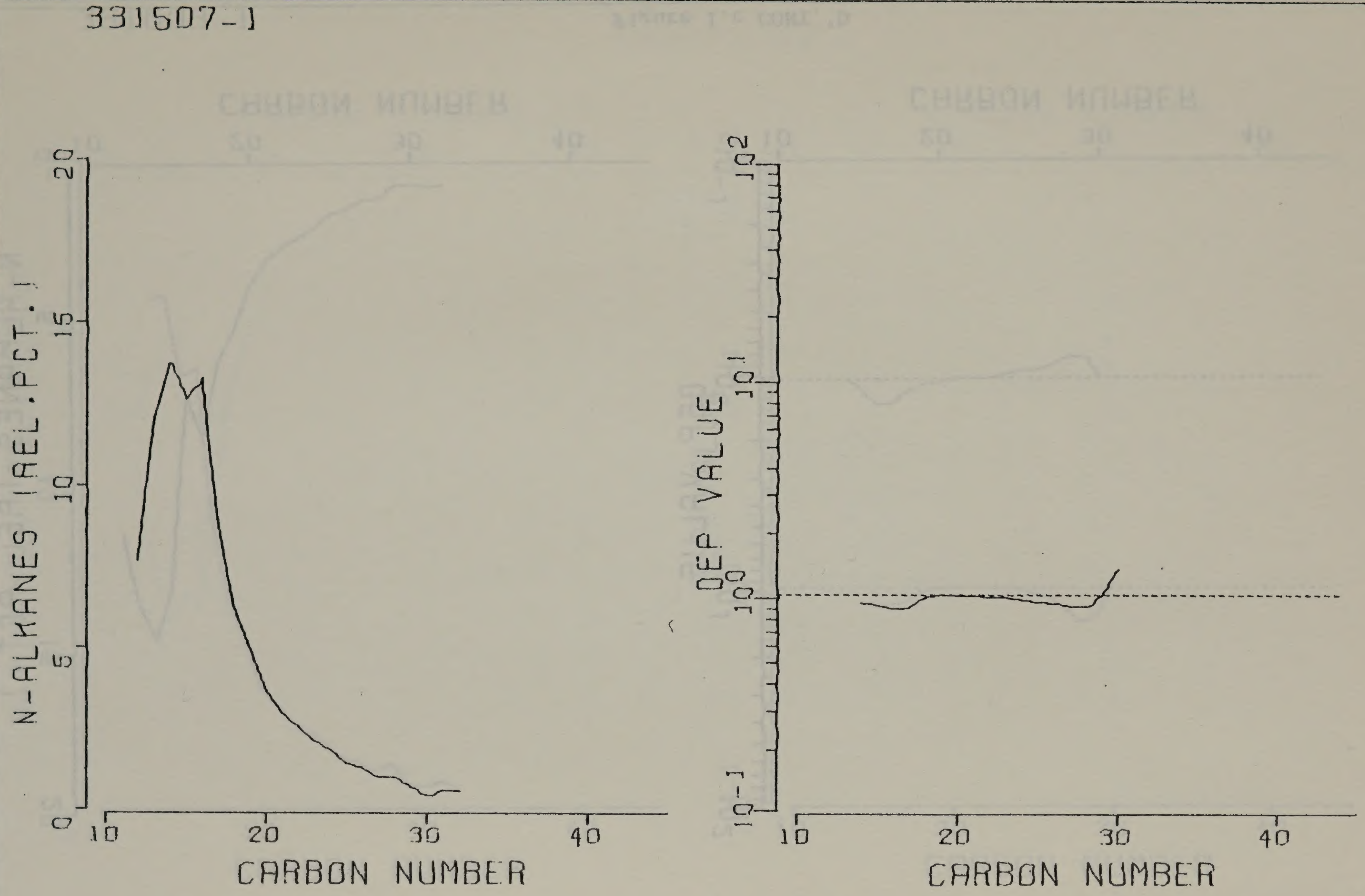

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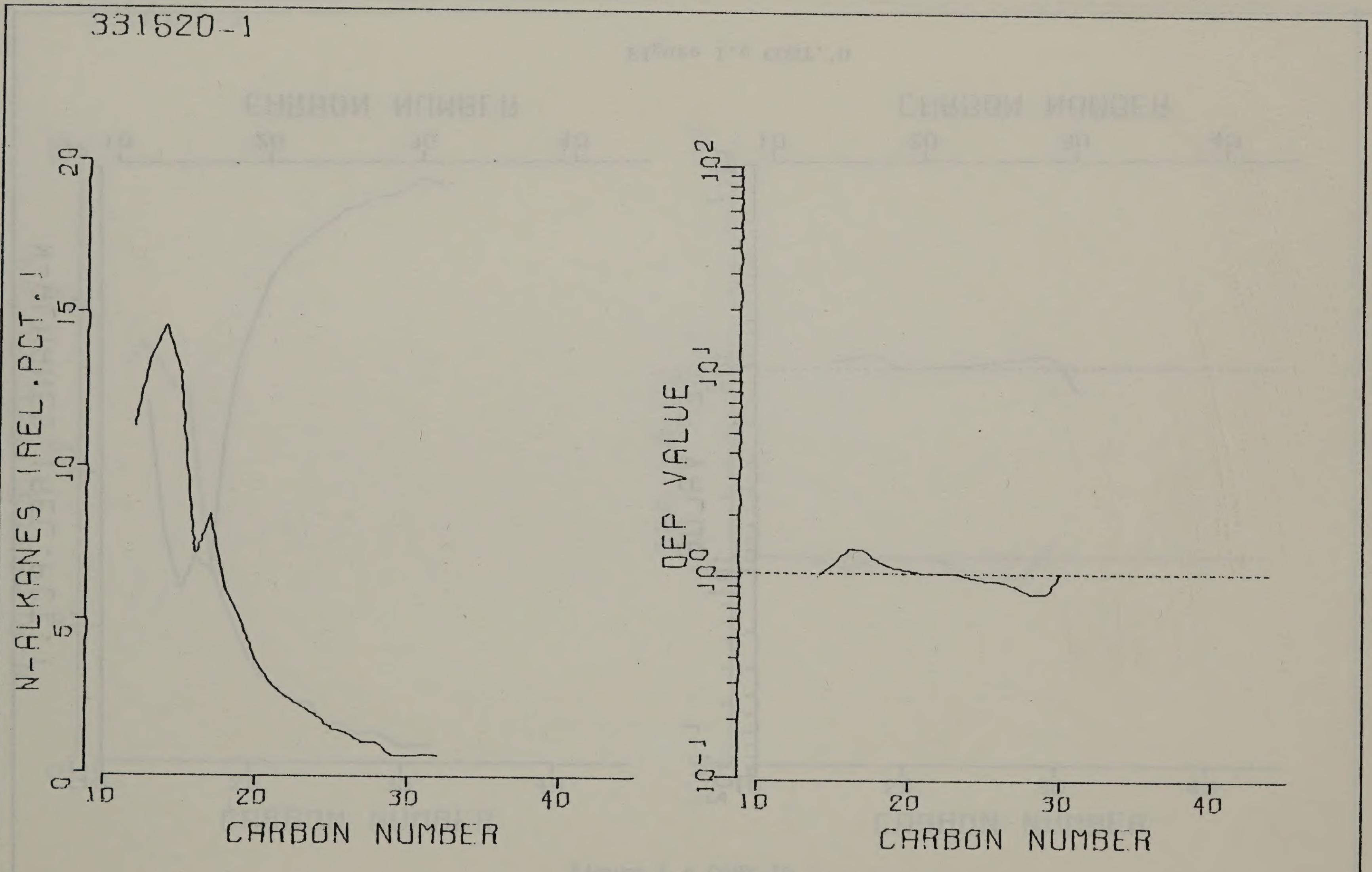

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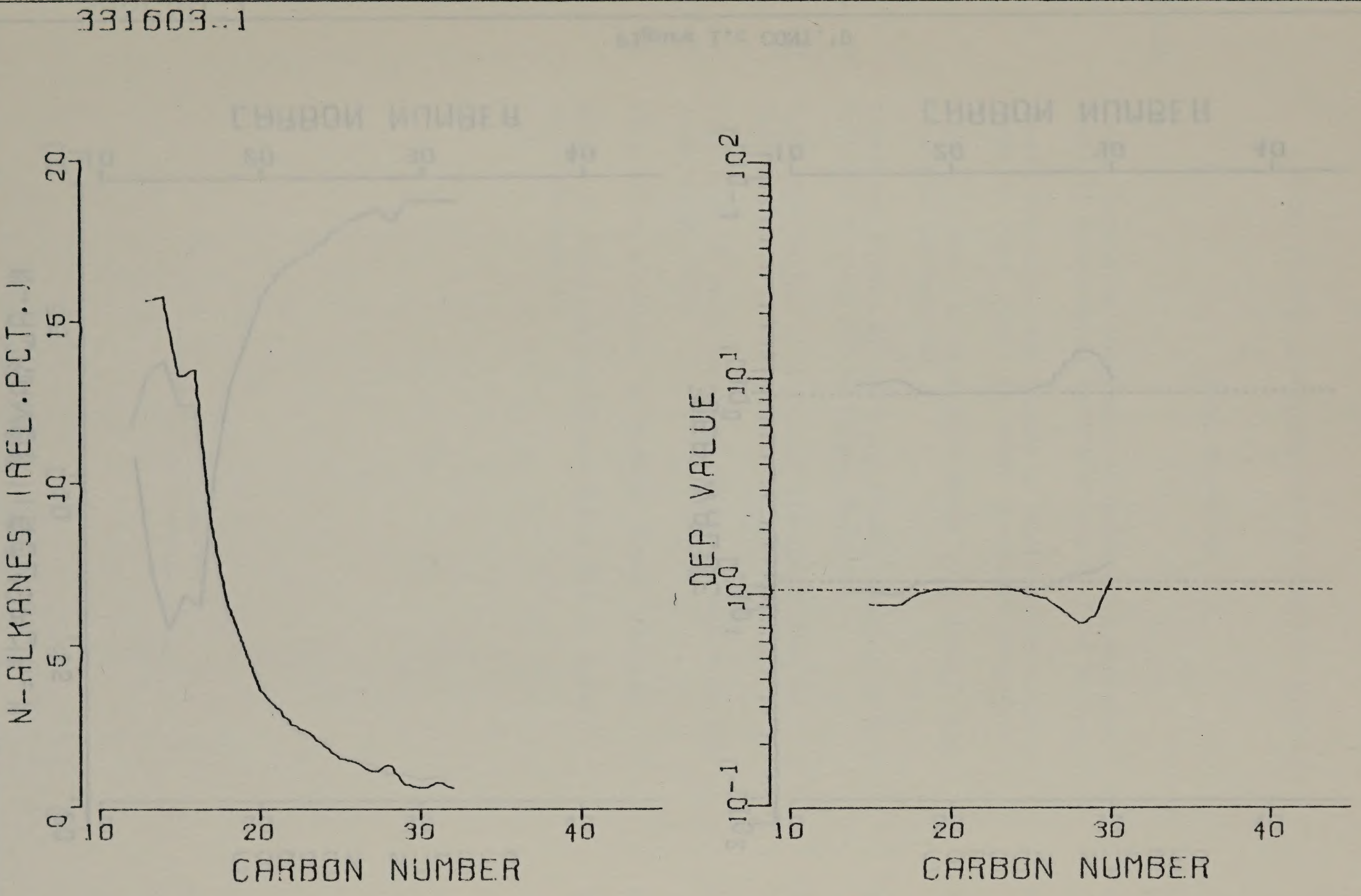

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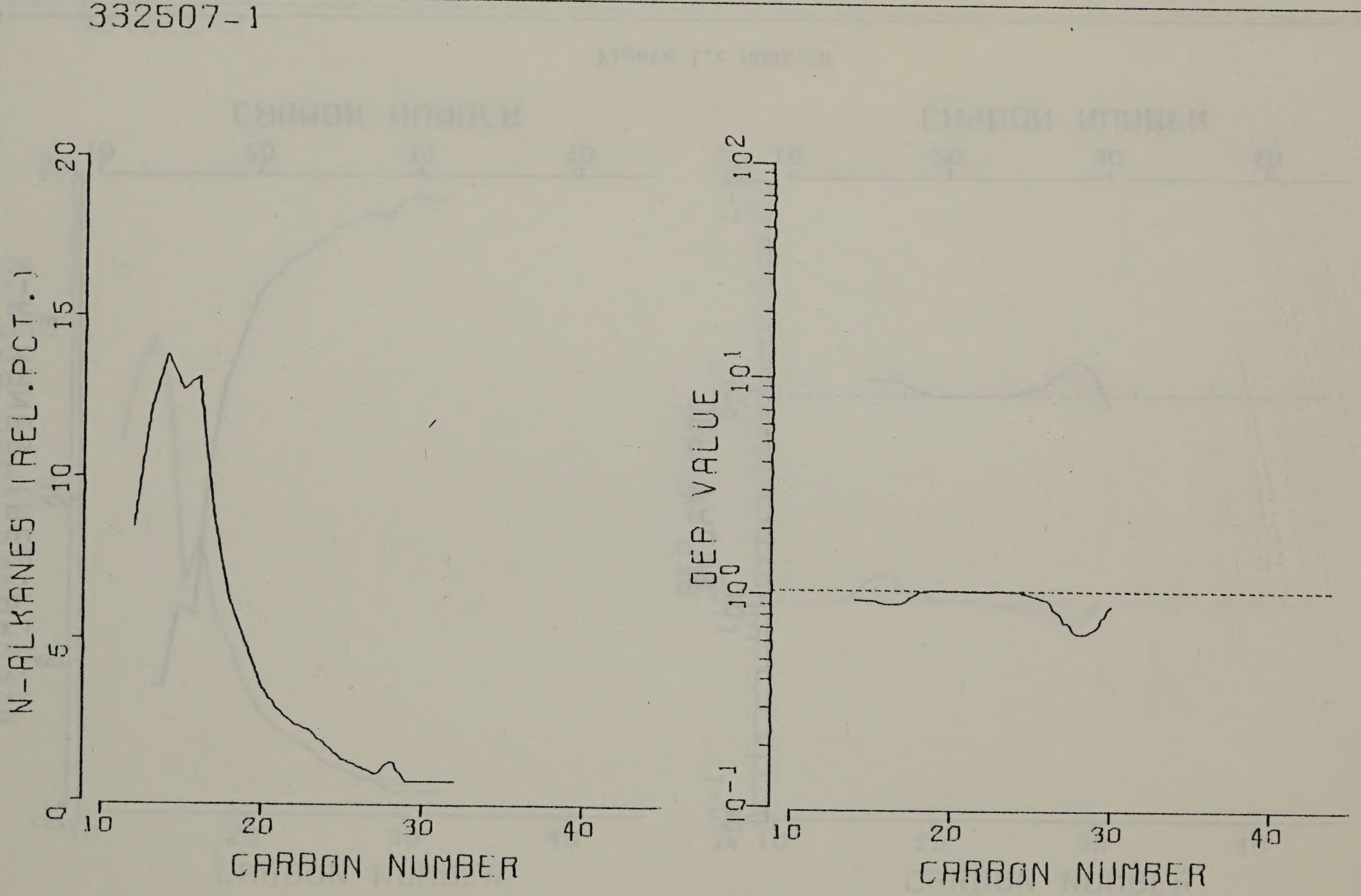

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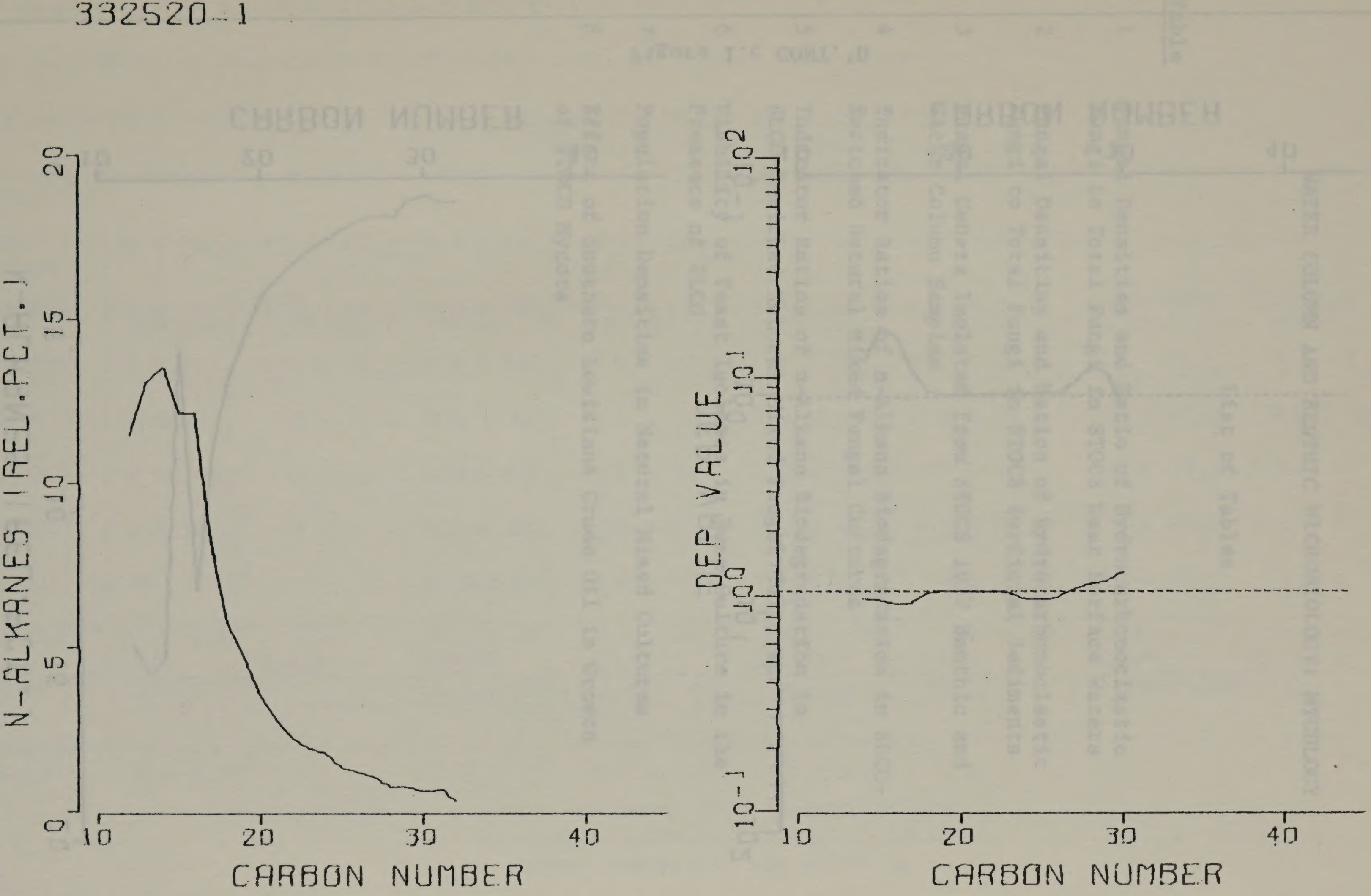

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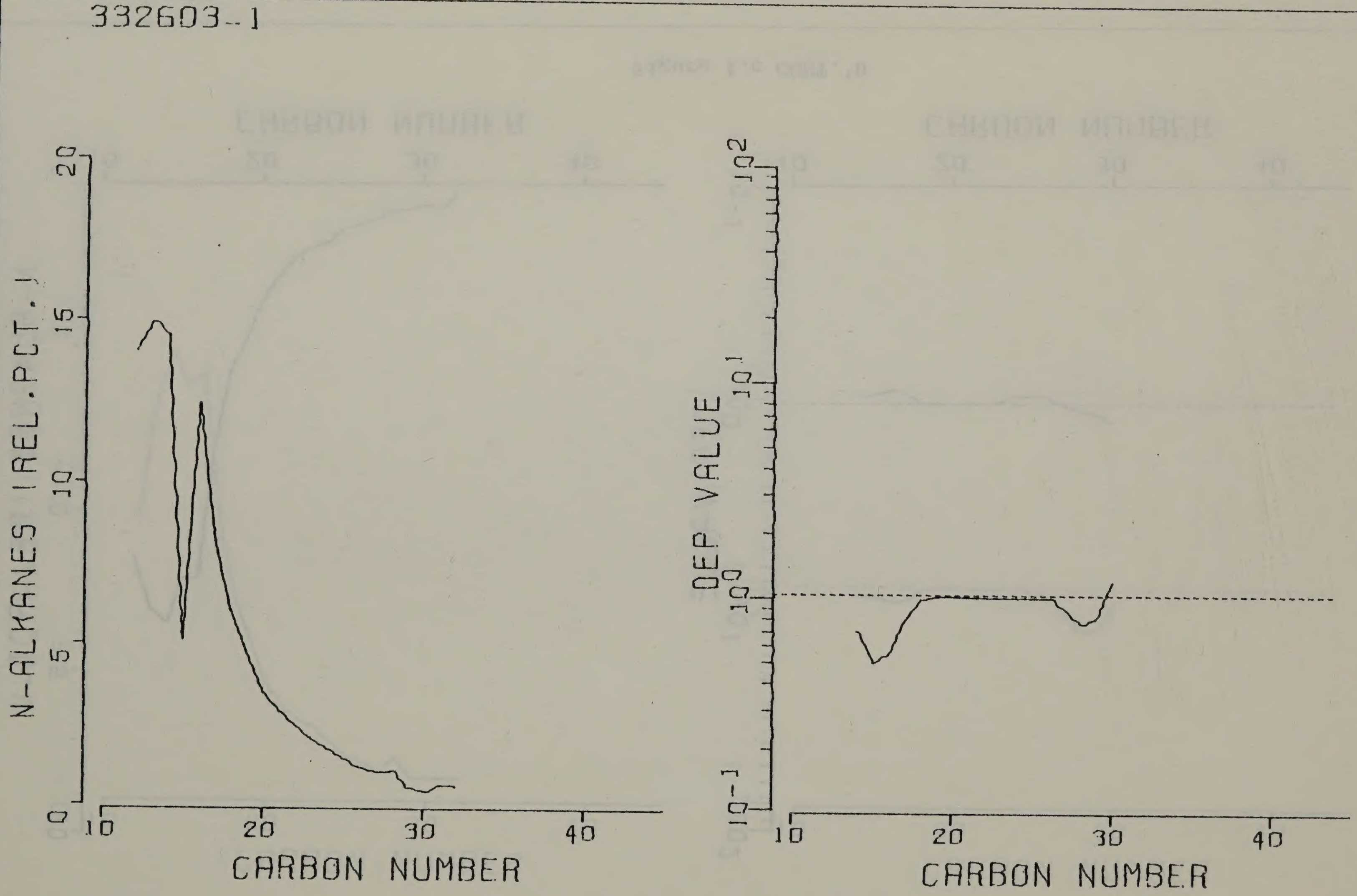

Figure 1.c CONT.'D

APPENDIX H

WATER COLUMN AND BENTHIC MICROBIOLOGY: MYCOLOGY

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TABLE 1

FUNGAL DENSITIES[1] AND RATIO OF HYDROCARBONOCLASTIC FUNGI[2] TO TOTAL FUNGI[3] IN STOCS NEAR SURFACE WATERS

Month	Station						Monthly Mean	
	1/II		2/II		3/II			
	CFU/ml	HF/TF	CFU/ml	HF/TF	CFU/ml	HF/TF	CFU/ml	HF/TF
March	8.97	-	8.40×10^{1}	-	5.9×10^{1}	-	5.0×10^{1}	-
April	1.3×10^{1}	0	2.3×10^{1}	4.4×10^{-2}	1.3×10^{1}	7.7×10^{-2}	1.6×10^{1}	4.0×10^{-2}
July	1.0×10^{-3}	0	8.0×10^{-3}	3.8×10^{-2}	3.0×10^{-2}	7.0×10^{-1}	1.3×10^{-2}	3.6×10^{-1}
August	7.0×10^{-3}	0	3.0×10^{-3}	0	2×10^{-3}	5.0×10^{-1}	4.0×10^{-3}	1.67×10^{-1}
November	3.8×10^{-2}	5.3×10^{-2}	4.0×10^{-3}	5.0×10^{-1}	1.5×10^{-2}	6.0×10^{-1}	2.1×10^{-2}	3.8×10^{-1}
December	5.0×10^{-3}	4.0×10^{-1}	5.0×10^{-3}	6.0×10^{-1}	3.0×10^{-3}	6.7×10^{-1}	4.0×10^{-3}	5.6×10^{-1}
Station Mean	1.3×10^{-2}	9.1×10^{-2}	5.0×10^{-3}	3.0×10^{-1}	1.3×10^{-2}	5.1×10^{-1}		

---

[1] Colony-forming units/ml.

[2] HF enumeration on hydrocarbonoclastic-selective Silica-gel oil medium.

[3] TF enumeration on non-selective Mycological Agar medium.

TABLE 2

FUNGAL DENSITIES[1] AND RATIOS OF HYDROCARBONOCLASTIC FUNGI[2] TO TOTAL FUNGI[3] IN STOCS SURFICIAL SEDIMENTS

Station	Season						Station Mean	
	Winter		Spring		Fall			
	CFU/ml	HF/TF	CFU/ml	HF/TF	CFU/ml	HF/TF	CFU/ml	HF/TF
3/I	5.0	–	3.5×10^{2}	1.4×10^{-1}	1.6×10^{2}	1.2	1.7×10^{2}	6.7×10^{-1}
1/II	1.1×10^{2}	–	3.3×10^{1}	8.5×10^{-1}	2.0×10^{2}	1.7	1.1×10^{2}	1.3
2/II	1.1×10^{1}	–	2.0×10^{1}	2.9	9.1×10^{2}	5.0×10^{-1}	3.1×10^{2}	1.7
3/II	2.1×10^{1}	–	1.5×10^{1}	8.0×10^{-1}	1.6×10^{3}	5.8×10^{-1}	5.4×10^{2}	6.9×10^{-1}
2/III	1.2×10^{1}	–	8.3×10^{1}	1.2×10^{-1}	4.5×10^{2}	9.5×10^{-1}	1.8×10^{2}	5.3×10^{-1}
1/IV	1.6×10^{1}	–	3.0×10^{1}	6.7×10^{-1}	2.0×10^{2}	1.5	8.3×10^{1}	1.7
Season Mean	2.9×10^{1}		8.9×10^{1}	9.1×10^{1}	5.9×10^{2}	1.1		

[1] Colony forming units/ml.

[2] HF--Enumeration on hydrocarbonoclastic-selective Silica-Gel oil medium.

[3] TF--Enumeration on non-selective Mycological Agar medium.

TABLE 3

FUNGAL GENERA ISOLATED FROM STOCS
1977 BENTHIC AND WATER COLUMN SAMPLES

TAXONOMIC UNIT	BENTHIC				WATER COLUMN			
	Enumeration		Rate	Degradation	Enumeration		Rate	Degradation
	MA[a]	SGO[b]	Control	Oil[c]	MA	SGO	Control	Oil
DEUTEROMYCOTA								
Hyphomycetes								
Dematiaceae								
Allischeriella	0[d]	0	1	2	0	0	0	0
Alternaria	1	0	0	1	2	3	0	2
Arthrinium	0	0	2	0	0	0	0	0
Aureobasidium	0	0	1	1	2	0	1	3
Cladosporium	11	3	6	8	6	3	5	9
Curvularia	0	0	0	3	0	0	0	1
Drechslera	1	0	0	3	1	0	0	1
Graphium	0	0	0	1	0	0	0	0
Humicola	0	0	0	0	0	1	0	0
Monodictys	0	0	0	0	0	0	0	1
Nodulosporium	0	0	0	1	0	0	0	0
Periconia	0	0	2	1	0	0	0	0
Scopulariopsis	0	0	0	1	1	0	1	1
Stachybotrys	0	0	0	5	0	0	0	0
Trichacladium	0	0	0	0	0	0	0	1
Zalerion	0	0	0	0	1	0	0	0
Moniliaceae								
Aspergillus	11	4	5	13	3	2	7	9
Cephalosporium	4	1	5	11	0	0	0	0
Chrysosporium	1	0	0	0	0	0	0	0
Diheterolspora	0	0	0	0	0	1	0	0
Fusarium	4	5	10	13	0	2	4	6
Geotrichum	0	0	0	0	0	0	0	2
Paecilomyces	2	1	2	4	1	0	4	3
Penicillium	16	10	6	10	12	1	7	10
Trichoderma	1	1	1	0	0	0	0	0
Cf. Varicosporium	0	0	0	0	0	0	0	1
Verticillium	0	0	0	3	0	0	0	0
Coelomycetes								
Sphaerioidaceae								
Coniothyrium	1	0	0	4	1	0	0	1
Peyronellaea	0	0	0	0	1	0	0	0
Phoma	0	0	0	0	2	1	1	0
Melanconiaceae								
Pestalotia	1	0	0	2	0	1	0	1
Blastomycetes								
Cryptococcaceae								
Candida	3	0	1	5	6	1	5	4
Cryptococcus	1	0	0	0	0	0	0	0
Rhodotorula	3	0	0	1	2	0	3	5
Torulopsis	0	0	0	0	3	0	0	0
Trichosporon	0	0	0	0	0	0	0	1
BASIDIOMYCOTA								
Ustilaginaceae								
Rhodosporidium	1	0	0	0	0	0	0	0
ASCOMYCOTA								
Pleouporaceae								
Sporormia	0	0	0	1	0	0	0	0
Hypocreaceae								
Hypocrea	0	0	0	1	0	0	0	0
Melanosporaceae								
Chaetomium	0	0	0	1	0	0	0	0
Eurotiaceae								
Cf. Dichlaena	0	0	0	1	0	0	0	0
Saccharomycetaceae								
Saccharomyces	1	0	0	0	0	0	0	0
ZYGOMYCOTA								
Syncephalastraceae								
Syncephalastrum	0	0	2	1	0	0	0	0
Total Number of Samples	18	12	18	18	18	15	18	18

[a] Mycological Agar enumeration plates.

[b] Silica-gel Oil enumeration plates.

[c] Southern Louisiana Crude Oil 0.1% or 0.5% V/V

[d] Number of samples yielding each genus.

TABLE 4

INDICATOR RATIOS OF N-ALKANE BIODEGRADATION IN SLCO[1]-ENRICHED NATURAL MIXED FUNGAL CULTURES[2]

Ratios	Station			Weathered Control	Inoculation (days)
	1/II	2/II	3/II		
		MARCH			20
Pr/17[a]	0.838	0.809	0.691		
Ph/18[b]	0.419	0.429	0.402		
Σ16-32/Pr + Ph[c]	5.361	5.517	5.650		
		APRIL			50
Pr/17	0.653	0.597	0.587		
Ph/18	0.227	0.156	0.145		
Σ16-32/Pr + Ph	8.233	9.938	9.832		
		JULY			40
Pr/17	0.556	0.532	0.446	0.510	
Ph/18	0.126	0.115	0.106	0.118	
Σ16032/Pr + Ph	9.728	10.326	11.302	12.727	
		AUGUST			40
Pr/17	0.531	0.522	0.531	0.515	
Ph/18	0.125	0.108	0.113	0.109	
Σ16-32/Pr + Ph	12.563	10.580	10.665	13.478	
		NOVEMBER			45
Pr/17	0.631	0.625	0.632	0.622	
Ph/18	0.326	0.323	0.325	0.331	
Σ16-32/Pr + Ph	8.944	8.412	8.568	9.594	
		DECEMBER			45
Pr/17	0.627	0.621	0.625	0.636	
Ph/18	0.324	0.316	0.320	0.342	
Σ16-32/Pr + Ph	8.532	8.605	8.546	7.822	

[1] Southern Louisiana Crude Oil 0.5% (v/v); shake cultures.

[2] Established with samples of near surface water.

[a] Pristane/*n*-C_{17}

[b] Phytane/*n*-C_{18}

[c] $\Sigma n\text{-}C_{16-32}$/Pr + Ph

TABLE 5

INDICATOR RATIOS OF N-ALKANE BIODEGRADATION IN SLCO[1] ENRICHED NATURAL MIXED FUNGAL CULTURES[2]

Ratio	Station						Weathered Control	Incubation (days)
	3/I	1/II	2/II	3/II	2/III	1/IV		
			WINTER					20
Pr/17[a]	0.980	1.004	1.051	0.886	1.161	1.002		
Ph/18[b]	0.483	0.478	0.515	0.462	0.501	0.559		
Σ16-32/Pr + Ph[c]	4.726	4.676	4.964	4.806	4.396	4.763		
			SPRING					40
Pr/17	0.692	1.428	1.081	0.731	1.274	1.491		
Ph/18	0.188	0.432	0.316	0.212	0.533	0.527		
Σ16-32/Pr + Ph	7.165	4.386	9.157	7.410	3.624	4.116		
			FALL					45
Pr/17	0.622	0.000[d]	0.676	0.623	0.656	3.614	0.640	
Ph/18	0.328	0.338	0.364	0.327	0.345	1.698	0.298	
Σ16-32/Pr + Ph	7.836	26.317[d]	7.143	7.250	9.783	1.117	8.552	
Pr/17[e]	0.628	1.066	0.938	0.631	1.414	26.390	0.626	
Ph/18[e]	0.301	0.463	0.494	0.324	0.674	4.569	0.296	
Σ16-32/Pr + Ph[e]	8.214	6.366	5.143	8.360	4.535	0.597	9.599	

---

[1] Southern Louisiana Crude Oil (SLCO)at 0.5% final concentration in shake cultures of sediment diluted 1:5 (v/v) artificial seawater.

[2] Established with benthic sediment samples.

[a] Pristane/n-C_{17}

[b] Phytane/n-C_{18}

[c] $\Sigma n\text{-}C_{16-32}/\text{Pr} + \text{Ph}$

[d] Aberrant data: Pristane value of 0.0000.

[e] 0.1% SLCO

TABLE 6

VIABILITY[1] OF YEAST ISOLATES IN PURE CULTURE IN THE PRESENCE OF SLCO[2]

Yeast	Medium	Days				
		0	5	10	20	30
Candida diddensii	SLCO	1.98	14.5	56.0	57.9	1.1
	SLCO +N,P,Fe,Zn	1.98	21.4	9.65	6.08	39.6
	SLCO +N,P,Fe,Zn, glucose	1.98	216.0	26.0	3.15	0.970
Cryptococcus albidus	SLCO	3.82	0.0017	0.0043	0.0039	<0.001
	SLCO +N,P,Fe,Zn	3.82	0.0163	0.0080	0.250	<0.001
	SLCO +N,P,Fe,Zn, glucose	3.82	417.0	111.0	17.9	10.7

---

[1] Expressed as colony-forming units x 10^4/ml.

[2] Southern Louisiana crude oil 0.1% (v/v).

TABLE 7

POPULATION DENSITIES[1] IN NATURAL MIXED CULTURES[2]

Sta./Trans.	Oil Content[a]	Month	Days		
			15	30	45
1/II	+	November	3.58×10^4	5.43×10^4	5.65×10^4
	-		5.25×10^4	5.60×10^4	7.35×10^4
	+	December	5.07×10^2	1.73×10^4	4.69×10^4
	-		3.54×10^1	0.00	0.00
2/II	+	November	1.75×10^1	1.67	5.70×10^1
	-		2.08×10^1	0.00	1.00×10^2
	+	December	2.62×10^1	1.86×10^3	1.58×10^2
	-		0.00	7.75×10^1	0.00
3/II	+	November	1.57×10^1	8.58×10^3	1.11×10^4
	-		0.00	9.50×10^3	0.00
	+	December	1.67	3.33	0.00
	-		5.00	7.25×10^1	0.00

---

[1] Colony-forming units/ml.

[2] Cultures established with STOCS near-surface waters collected in November and December.

[a] Enriched with South Louisiana crude oil at 0.5% (v/v)

TABLE 8

EFFECT OF SOUTHERN LOUISIANA CRUDE OIL ON GROWTH OF STOCS MYCOTA[1]

Genus	Number of Isolates in Each Response Class									
	G/[a]G	G[b]/g[c]	g/G	G/-[d]	-/G	g/g	g/-	-/g	-/-	No. Isolates Tested
Penicillium	24	4	12		2	8		4	21	75
Aspergillus	11	1	4		3	6	1	11	33	70
Fusarium		1	2		1	10	6	11	32	63
Cladosporium			1		1	5	2	6	36	51
Candida	19	11		1	1	7			4	43
Cephalosporium	1		3		1	1	1	3	16	26
Rhodotorula	3		2		1	5	3	3	4	21
Paecilomyces	4				2	2		4	7	19
Alternaria	1	2			1	3	1	1	2	11
Aureobasidium						2	2	1	5	10
Coniothyrium			2					3	3	8
Drechslera	1		1			1		1	4	8
Scopulariopsis			1		1	3	1		2	8
Black yeast	2			1					3	6
Curvularia	1		1					2	2	6
Pestalotia						1	2		3	6
Stachybotrys			1		1			1	2	5
Verticillium	3		1						1	5
Phoma								1	3	4
Torulopsis				1			1	2		4
Chaetomium						1		1		2
Geotrichum					1			1		2
Nodulosporium	1								1	2
Sporormia			1		1					2
Trichoderma								1	1	2
Variosporina							1		1	2
Allescheriella								1		1
Arthrinium						1				1
Chrysosporium									1	1
Cryptococcus		1								1
Dichlaena	1									1
Diheterospora					1					1
Graphium							1			1
Helminthosporium						1				1
Humicola						1				1
Hypocrea									1	1
Periconia									1	1
Peyronellaea								1		1
Saccharomyces						1				1
Syncephalastrum								1		1
Trichocladium									1	1
Trichosporon									1	1
Zalerion									1	1

[1] Oil added to cover one-half of silica-gel slope culture established in presence of limited glucose; growth scored after one month.

[a] Above oil surface/below oil surface

[b] Good growth.

[c] Weak growth.

[d] No growth.

APPENDIX I

BENTHIC BACTERIOLOGY

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TABLE 1

TOTAL SEDIMENT AEROBIC HETEROTROPHIC BACTERIA COLLECTED
At Each Station During the Winter, Spring, and Fall.
Values are Mean ± 1 Standard Deviation

Station/ Transect	Total aerobic heterotrophic bacteria/ml wet sediment ($\times 10^4$)		
	Winter	Spring	Fall
1/I	59.3 ± 7.9	91.3 ± 18.4	105.3 ± 20.9
2/I	48.2 ± 11.3	64.2 ± 30.2	36.3 ± 10.3
3/I	36.5 ± 8.6	4.6 ± 1.0	5.6 ± 1.2
1/II	55.8 ± 15.4	131.3 ± 16.4	40.2 ± 6.6
2/II	29.7 ± 5.3	47.7 ± 23.3	75.8 ± 20.6
3/II	5.7 ± 1.2	5.3 ± 0.9	27.0 ± 8.9
1/III	89.0 ± 17.8	83.2 ± 22.1	60.7 ± 7.1
2/III	30.8 ± 4.0	40.2 ± 9.8	71.0 ± 13.6
3/III	15.3 ± 5.4	6.5 ± 0.9	24.5 ± 8.6
1/IV	83.3 ± 12.3	93.7 ± 23.5	53.2 ± 15.9
2/IV	22.2 ± 1.2	38.5 ± 8.8	11.5 ± 2.2
3/IV	6.2 ± 1.8	58.5 ± 18.8	63.2 ± 31.5

TABLE 2

NUMBER OF SEDIMENT HYDROCARBON DEGRADING BACTERIA COLLECTED At Each Station During the Winter, Spring, and Fall.

Station/ Transect	Mean number of hydrocarbon degrading bacteria/ml wet sediment ($\times 10^3$)		
	Winter	Spring	Fall
1/I	9.10	13.0	25.0
2/I	2.90	1.2	3.0
3/I	3.50	0.13	1.3
1/II	6.20	7.8	6.7
2/II	0.31	0.84	78.0
3/II	0.29	0.32	4.2
1/III	1.40	1.80	17.0
2/III	0.59	2.80	7.5
3/III	1.40	0.15	1.6
1/IV	6.00	3.40	110.0
2/IV	0.22	1.10	13.0
3/IV	0.08	4.30	14.0

TABLE 3

PERCENT SEDIMENT HYDROCARBON DEGRADING BACTERIA Collected at Each Station During the Winter, Spring, and Fall.

Station/ Transect	Percent hydrocarbon degrading bacteria		
	Winter	Spring	Fall
1/I	1.54	1.42	2.37
2/I	0.60	0.19	0.83
3/I	0.97	0.28	2.32
1/II	1.11	0.59	1.67
2/II	0.10	0.18	10.29
3/II	0.52	0.60	1.56
1/III	0.16	0.22	2.80
2/III	0.19	0.70	1.06
3/III	0.93	0.23	0.65
1/IV	0.72	0.36	20.68
2/IV	0.10	0.29	11.30
3/IV	0.13	0.73	2.22

TABLE 4

Mean Percent Degradation of South Louisiana Crude Oil by Samples Collected at Each Station During Winter, Spring, and Fall.

Station/ Transect	Mean Percent Degradation[a]		
	Winter	Spring	Fall
1/I	0.1	60.6	61.4
2/I	14.1	37.6	70.8
3/I	10.9	31.2	63.0
1/II	10.9	53.9	71.7
2/II	3.6	40.7	73.1
3/II	0	28.7	63.8
1/III	0	30.4	68.7
2/III	3.3	8.4	65.0
3/III	0	10.3	71.2
1/IV	0	58.1	91.6
2/IV	0	20.7	60.0
3/IV	3.3	31.4	76.2

[a] Based on C_{14}-C_{32} n-paraffins.

TABLE 5

Utilization Rate of n-[1-^{14}C] Hexadecane by Four Pure Cultures of Hydrocarbon Degrading Bacteria

I. *Vibrio* sp.

Hours	Utilization Rate (disintegrations per minute/hour)	
	Mineralization to $^{14}CO_2$	Uptake by cells
3	255.8	0
8	0	0
24	103.1	0
48	129.6	0
72	0	0
II. *Pseudomonas* sp. 1		
3	375.2	22.0
8	78.9	0
24	0	12.3
48	12.2	0
72	0	4.0
III. *Pseudomonas* sp. 2		
3	698.7	2.8
8	145.9	19.1
24	10.2	0
48	22.5	8.3
72	21.9	0
IV. *Pseudomonas* sp. 3		
3	12.2	0.5
8	148.3	1.9
24	0	0
48	13.6	7.9
72	4.6	5.5

TABLE 6

Effect of South Louisiana Crude Oil (SLCO) on the Growth of Total Sediment Aerobic Heterotrophic Bacteria Collected At Each Station During Winter. Values are Mean ± 1 Standard Deviation.

Station/ Transect	Total aerobic heterotrophic bacteria/ml wet sediment ($\times 10^6$) after:			
	2 Weeks		4 Weeks	
	Control	SLCO	Control	SLCO
1/I	26.5 ± 4.4	90.0 ± 60.7	22.7 ± 7.7	60.8 ±19.3
2/I	21.0 ± 2.8	66.5 ± 33.1	12.3 ± 4.1	74.3 ±33.7
3/I	25.3 ± 6.5	60.7 ± 17.7	12.3 ± 2.2	54.7 ±11.0
1/II	20.0 ± 4.8	60.7 ± 14.2	13.6 ± 8.3	54.2 ±18.0
2/II	33.0 ± 7.8	56.0 ± 11.7	24.7 ± 11.7	58.5 ±12.2
3/II	33.7 ± 5.2	87.7 ± 5.7	11.6 ± 2.3	14.4 ± 3.0
1/III	48.8 ± 11.0	111.8 ± 30.9	46.5 ± 7.3	79.3 ± 6.9
2/III	24.8 ± 6.1	53.3 ± 16.3	28.7 ± 10.8	49.3 ±18.2
3/III	2.7 ± 0.9	81.0 ± 18.1	40.8 ± 20.3	36.2 ±14.6
1/IV	35.8 ± 14.4	65.0 ± 15.6	29.3 ± 6.5	120.0 ±30.3
2/IV	36.8 ± 11.2	83.5 ± 20.6	27.0 ± 9.7	80.8 ±18.8
3/IV	104.2 ± 18.3	158.2 ± 27.1	33.7 ± 9.5	140.7 ±58.7

Station/ Transect	6 Weeks		8 weeks	
	Control	SLCO	Control	SLCO
1/I	20.0 ± 10.8	57.2 ± 3.3	10.2 ± 3.1	148.3 ±24.5
2/I	18.7 ± 14.2	49.7 ± 11.9	8.4 ± 1.6	211.8 ±14.4
3/I	18.5 ± 8.0	48.0 ± 6.6	11.1 ± 4.6	297.4±150.6
1/II	18.0 ± 6.4	94.7 ± 10.4	18.4 ± 4.2	227.7 ±68.3
2/II	12.0 ± 4.5	60.5 ± 17.0	9.1 ± 2.5	128.0 ±35.3
3/II	8.8 ± 4.9	119.0 ± 18.6	9.9 ± 2.3	421.3 ±88.5
1/III	103.5 ± 96.3	98.8 ± 18.1	121.3 ±116.8	183.8 ±46.6
2/III	20.3 ± 9.9	55.0 ± 9.0	10.3 ± 4.3	101.8 ±18.3
3/III	115.2 ± 51.3	55.5 ± 22.6	231.0 ± 24.9	202.3 ±25.4
1/IV	12.3 ± 4.5	83.8 ± 21.3	23.7 ± 11.9	170.3 ±15.6
2/IV	20.0 ± 10.0	111.2 ± 56.9	17.2 ± 6.8	226.0 ±20.7
3/IV	15.8 ± 5.4	113.3 ± 64.9	19.5 ± 4.5	188.2 ±86.6

TABLE 7

Effect of South Louisiana Crude Oil (SLCO) on the Growth of Total Sediment Aerobic Heterotrophic Bacteria Collected At Each Station During Spring. Values Are Mean ± 1 Standard Deviation.

Station/ Transect	Total aerobic heterotrophic bacteria/ml wet sediment (×10^6) after:			
	1 Week		3 Weeks	
	Control	SLCO	Control	SLCO
1/I	14.6 ± 3.6	97.7 ± 26.9	13.0 ± 2.9	155.3 ± 28.3
2/I	20.7 ± 3.9	114.0 ± 42.6	18.5 ± 2.8	133.0 ± 52.8
3/I	98.0 ± 34.1	220.5 ± 72.5	17.5 ± 2.9	307.3 ± 171.8
1/II	21.8 ± 3.1	67.0 ± 12.7	17.6 ± 4.9	276.7 ± 73.5
2/II	25.0 ± 6.7	48.8 ± 13.6	15.7 ± 1.3	123.3 ± 20.2
3/II	9.7 ± 3.0	118.0 ± 39.4	13.6 ± 3.6	136.3 ± 14.5
1/III	17.2 ± 6.0	52.0 ± 18.5	34.3 ± 3.7	212.8 ± 57.8
2/III	315.0 ± 230.0	105.5 ± 89.2	47.2 ± 38.2	106.3 ± 41.7
3/III	70.8 ± 29.0	36.0 ± 6.0	77.5 ± 27.7	152.0 ± 35.2
1/IV	24.5 ± 17.4	67.0 ± 32.7	18.4 ± 7.5	263.2 ± 79.5
2/IV	34.3 ± 6.2	134.7 ± 49.8	15.1 ± 4.0	73.2 ± 29.7
3/IV	28.7 ± 8.4	118.8 ± 68.9	11.3 ± 2.6	102.2 ± 34.3

Station/ Transect	5 Weeks		8 Weeks	
	Control	SLCO	Control	SLCO
1/I	42.1 ± 40.9	137.8 ± 37.0	10.7 ± 4.6	164.8 ± 23.5
2/I	67.3 ± 29.6	122.3 ± 43.6	71.7 ± 18.0	456.0 ± 208.0
3/I	13.4 ± 2.7	213.0 ± 80.1	13.9 ± 2.7	396.5 ± 159.1
1/II	57.7 ± 13.2	316.0 ± 66.0	12.0 ± 1.5	596.0 ± 288.1
2/II	15.0 ± 5.4	166.7 ± 76.6	8.0 ± 0.8	216.0 ± 62.6
3/II	19.5 ± 5.8	201.0 ± 84.5	16.4 ± 14.3	259.2 ± 89.0
1/III	18.6 ± 4.6	395.5 ± 74.5	14.6 ± 6.2	412.3 ± 37.4
2/III	32.9 ± 26.4	164.4 ± 86.5	13.6 ± 5.3	498.7 ± 330.1
3/III	32.1 ± 6.2	239.8 ± 37.6	17.6 ± 4.4	396.7 ± 35.7
1/IV	15.5 ± 2.5	361.2 ± 214.3	9.7 ± 2.7	263.0 ± 33.3
2/IV	13.4 ± 2.0	126.2 ± 89.7	5.7 ± 0.8	471.4 ± 270.5
3/IV	14.8 ± 2.0	172.0 ± 71.2	14.7 ± 12.0	232.2 ± 48.0

TABLE 8

Effect of South Louisiana Crude Oil (SLCO) on the Growth of Total Sediment Aerobic Heterotrophic Bacteria Collected At Each Station During Fall. Values Are Mean ± 1 Standard Deviation.

Station/ Transect	Total aerobic heterotrophic bacteria/ml wet sediment (×10^6) after:			
	1 Week		3 Weeks	
	Control	SLCO	Control	SLCO
1/I	6.3 ± 0.9	60.2 ± 11.3	32.7 ± 9.9	298.0 ± 120.0
2/I	12.1 ± 1.9	51.7 ± 20.7	16.9 ± 3.9	173.3 ± 141.4
3/I	28.0 ± 8.2	116.0 ± 36.6	18.0 ± 5.1	303.0 ± 157.0
1/II	21.0 ± 8.8	146.7 ± 32.8	12.9 ± 5.5	130.3 ± 21.1
2/II	10.4 ± 2.6	41.3 ± 16.3	8.4 ± 1.5	782.0 ± 713.0
3/II	8.3 ± 1.7	58.5 ± 16.0	12.8 ± 3.9	565.0 ± 679.0
1/III	12.9 ± 3.8	57.8 ± 13.8	22.3 ± 5.6	217.0 ± 61.0
2/III	9.2 ± 2.0	12.5 ± 1.6	9.6 ± 2.1	75.7 ± 17.7
3/III	8.1 ± 1.6	42.3 ± 12.7	14.4 ± 3.5	102.0 ± 17.5
1/IV	7.0 ± 1.2	52.5 ± 13.3	13.5 ± 8.3	111.0 ± 33.5
2/IV	10.7 ± 2.0	45.7 ± 26.9	8.6 ± 1.8	67.0 ± 9.8
3/IV	7.7 ± 2.2	48.7 ± 21.9	7.6 ± 1.8	125.8 ± 19.7

Station/ Transect	5 Weeks		8 Weeks	
	Control	SLCO	Control	SLCO
1/I	15.6 ± 5.2	224.0 ± 69.8	14.4 ± 4.6	259.2 ± 30.5
2/I	8.0 ± 1.9	183.0 ± 44.8	21.1 ± 7.7	302.3 ± 69.8
3/I	10.3 ± 1.7	313.5 ± 90.9	7.6 ± 3.0	697.0 ± 325.0
1/II	13.2 ± 1.8	1535.0 ±1255.0	8.0 ± 1.9	328.0 ± 121.0
2/II	6.3 ± 1.6	133.5 ± 31.7	11.3 ± 6.9	197.0 ± 50.1
3/II	7.0 ± 1.1	168.5 ± 34.1	5.5 ± 2.8	234.0 ± 62.3
1/III	38.8 ± 9.1	558.0 ± 146.0	41.2 ± 7.0	530.5 ± 400.7
2/III	29.7 ± 12.6	332.0 ± 236.0	16.7 ± 7.2	142.7 ± 29.9
3/III	6.8 ± 1.5	450.0 ± 183.0	6.0 ± 1.9	368.0 ± 238.0
1/IV	8.2 ± 2.9	278.0 ± 80.0	10.8 ± 1.8	302.0 ± 130.0
2/IV	11.1 ± 2.9	273.0 ± 82.0	7.7 ± 2.7	424.0 ± 137.0
3/IV	9.7 ± 1.7	338.0 ± 121.0	8.7 ± 1.4	410.0 ± 56.0

TABLE 9

Effect of South Louisiana Crude Oil (SLCO) on the Growth of Six Pure Cultures of Sediment Bacteria. Values Are Mean ± 1 Standard Deviation.

I. Heterotrophic bacteria

A. *Bacillus* sp.

Days	Total viable count/ml ($\times 10^4$)	
	Control	SLCO
0	2.2 ± 0.7	2.4 ± 0.6
0.17	1.8 ± 0.4	1.6 ± 0.2
1	1.9 ± 0.8	3.9 ± 1.1
3	1.4 ± 1.2	6.4 ± 5.5
7	1.7 ± 1.3	7.6 ± 1.7
15	2.6 ± 1.7	9.6 ± 2.6
30	1.7 ± 1.9	9.4 ± 2.3

B. *Vibrio* sp.

Days	Total viable count/ml ($\times 10^3$)	
	Control	SLCO
0	80.0 ± 6.5	76.8 ± 20.1
0.17	78.5 ± 15.0	71.8 ± 14.1
1	83.0 ± 10.6	83.2 ± 8.6
3	93.2 ± 12.7	82.7 ± 17.8
7	123.5 ± 15.4	58.5 ± 7.4
15	132.0 ± 15.2	25.6 ± 4.0
30	65.7 ± 14.8	27.7 ± 15.1

C. *Pseudomonas* sp.

Days	Total viable count/ml ($\times 10^2$)	
	Control	SLCO
0	163.5 ± 20.7	153.0 ± 16.1
0.17	149.2 ± 14.5	143.8 ± 9.6
1	32.9 ± 7.0	19.4 ± 3.8
3	14.7 ± 3.2	11.5 ± 1.9
7	12.2 ± 4.4	10.6 ± 1.2
15	12.3 ± 4.0	9.6 ± 1.7
30	12.3 ± 3.4	8.8 ± 1.3

TABLE 9 CONT.'D

II. Hydrocarbon degrading bacteria

A. *Vibrio* sp.

Days	Total viable count/ml ($\times 10^4$)	
	Control	SLCO
0	0.7 ± 0.1	0.6 ± 0.1
0.17	1.6 ± 0.2	1.6 ± 0.2
1	48.5 ± 6.1	48.4 ± 6.1
3	63.1 ± 4.1	137.1 ± 24.2
7	86.8 ± 20.9	154.7 ± 25.9
15	61.8 ± 14.0	128.3 ± 22.7
30	5.0 ± 1.5	34.8 ± 30.7

B. *Pseudomonas* sp. 1

Days	Total viable count/ml ($\times 10^4$)	
	Control	SLCO
0	0.6 ± 0.1	0.5 ± 0.1
0.17	0.6 ± 0.2	0.5 ± 0.1
1	13.1 ± 3.2	5.7 ± 0.4
3	16.4 ± 1.8	110.3 ± 33.9
7	11.3 ± 2.5	287.0 ± 88.8
15	13.7 ± 1.6	244.3 ± 46.9
30	2.4 ± 1.2	143.2 ± 51.0

C. *Pseudomonas* sp. 2

Days	Total viable count/ml ($\times 10^4$)	
	Control	SLCO
0	1.0 ± 0.1	1.0 ± 0.3
0.17	1.5 ± 0.3	1.6 ± 0.2
1	88.7 ± 9.6	122.8 ± 30.9
3	-	-
7	390.8 ± 75.4	1423.7 ± 596.5
15	443.0 ± 57.0	2225.0 ± 511.0
30	717.0 ± 334.0	3222.0 ± 671.0

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